

# INSTRUCTION MANUAL

# 27"\* LCD High-definition Colour TV with ATSC Digital Tuner

# AVL-279



\* Diagonal measure

Help Line: 1-800-263-224 Monday to Friday 9am-5pm (Eastern)

www.sanyo.ca

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

"Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org

# FCC STATEMENT

### **FCC Notice**

### LCD TV: A CLASS B digital device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## FCC CAUTION:

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by the manufacturer could cause harmful interference and would void the user's authority to operate this device.

WARNING: This is a CLASS B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to counter interference.

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# **Important Safety Precautions**

Electrical energy can perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your LCD TV product, please read the following precautions carefully before using the product.

1. Read these instructions---All operating instructions must be read and understood before the product is operated.

2. Keep these instructions----These safety and operating instructions must be kept in a safe place for future reference.

3. Heed all warnings --- All warnings on the product and in the instructions must be observed closely.

4. Follow all instructions --- All operating instructions must be followed.

**5.** Do not use this apparatus near water---for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like. Do not use immediately after moving from a low temperature to high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.

**6. Clean only with dry cloth---**Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**7. Ventilation**---Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.

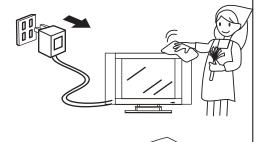
**8.Heat sources---**Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

**9.Grounding or Polarization**---Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

**10.Power cord protection**---Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

**11.Attachments---**Only use attachments/accessories specified by the manufacturer. Do not use attachments not recommended by the manufacturer. Use of improper attachments can result in accidents.







# Important Safety Precautions (continued)

**12. Stand---**Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. Do not place the product on an unstable trolley, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

**13. Move Carefully---**When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Sudden stops, excessive force and uneven floor surfaces can cause the product to fall from the trolley.

**14. Lightning---**Unplug this apparatus during lightning storms or when unused for long periods of time.

For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.

**15. Servicing**---Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**16. Replacement parts---**In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

**17.Overloading**---Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.

**18.Entering of objects and liquids---**Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.

**19.Damage requiring service**---If any of the following conditions occur, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.

a. When the power cord or plug is damaged.

b. When a liquid is spilled on the product or when objects have fallen into the product.

c. When the product has been exposed to rain or water.

d. When the product does not operate properly as described in the operating instructions.

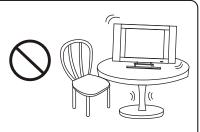
Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.

e. If the product has been dropped or the cabinet has been damaged in any way.

f. When the product displays an abnormal condition or exhibits a distinct change in performance. Any noticeable abnormality in the product indicates that the product needs servicing.

**20.Safety checks---**Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

**21.Wall or ceiling mounting---**When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. This is a safety feature.

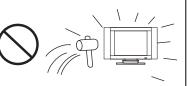






**22. Power source---**This product is intended to be supplied by a listed power supply indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges. When the unit has to be used with another power supply voltage, the power cable must be changed. Consult your product dealer. The socket outlet should be installed near the equipment and easily accessible. Use only the power cord designated by our dealer to ensure safety and EMC. When connecting other products such as VCRs and personal computers, you should turn off the power of the unit for protection against electric shock.

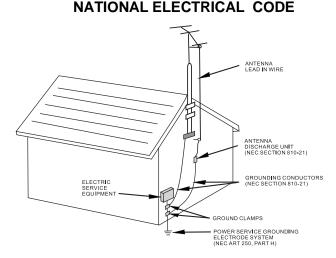
**23.Panel protection---**The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or impacted upon by other objects. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.



**24.Pixel defect---**The LCD panel is a very high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

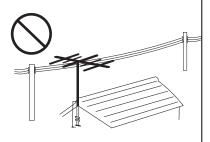
< If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

**EXAMPLE OF ANTENNA GROUNDING AS PER** 



### NEC-NATIONAL ELECTRICAL CODE

< An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can collide with such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.</p>



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# Introducing the TV

Thank you for choosing SANYO. This product incorporates latest-generation features including an ATSC digital tuner. Please read all instructions carefully to obtain maximum benefit of your product. Questions? Our toll-free number is 1-800-263-2244, 9am-5pm, Monday to Friday (Eastern time).

<i>Remove the TV from the Box</i>	<ul> <li>STOP! To safely remove the television from the box It's best to use 2 people to remove the television for stability.</li> <li>1. Remove cardboard holders from the box.</li> <li>2. Remove the cardboard; however, keep the wrapping on the television to protect it while moving.</li> <li>3. Lift onto installation location as the diagram illustrates.</li> </ul>
Installing the TV	<ul> <li>Keep enough space above and behind the Display.</li> <li>The TV should be installed near an easily accessible power outlet.</li> <li>To prevent internal heat buildup, do not block the ventilation openings.</li> <li>Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.</li> </ul>
	<ul> <li>Be sure to take measures to prevent the TV from toppling over and causing injury.</li> <li>To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the TV in a room where the floor and walls are not of a reflective material.</li> </ul>
	Cautions:
	<ul> <li>Do not install the TV in protruding locations.</li> <li>Do not install this unit in restaurants where oily vapors occur. Dust absorbing oil may enter into the unit and damage the unit.</li> <li>Do not install this unit outdoors. If the unit is exposed to rain, it may result in fire or electric shock. If the unit is exposed to direct sunlight, the unit may heat up and cause damage to the unit.</li> <li>Do not install this unit in a vehicle or hang from the ceiling. Bumping of the vehicle may cause the unit to fall down and cause injury.</li> <li>Do not install this unit in a ship or vessel. If the unit is exposed to seawater, it may cause fire or damage the unit.</li> <li>If you install the unit on a non-level surface, the unit may fall or drop and cause injury or damage.</li> <li>If you place the unit on an unstable surface, the unit may fall and cause injury or damage.</li> <li>Do not hang anything on the unit. If you do so, the unit may fall from the stand or wall-mount bracket, causing damage or serious injury.</li> </ul>
<i>Carrying or Moving the TV</i>	<ul> <li>When you move the TV, carry it by two people.</li> <li>When you move the TV, hold the upper and bottom frames of the TV, not the speaker.</li> <li>As the glass surface of the TV has a special coating, be careful to avoid touching the glass surface as far as possible.</li> <li>When transporting, do not subject the unit to shocks or vibration, or excessive force.</li> </ul>

### Attach the Speaker System to the Display

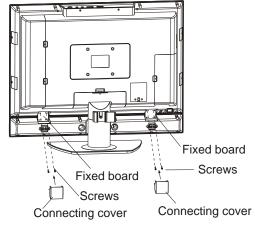
- The appearance of the unit may differ from the actual one.
- To deattach the speaker, perform the steps in reverse order.

### **Cautions:**

- **1.** Carefully handle the unit during setup and consult authorized service personnel to ensure successful installation.
- 2. Before performing work spread cushioning over the base area to lay the Display on. This will prevent it from being damaged.
- 3. Disconnect the AC power cord firstly.

Screw the Speaker and the Fixed board to the unit using the supplied screws and tighten securely, then install the two Connecting covers as the diagram illustrates.

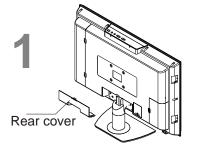
Connect **only** the supplied speaker audio cables between the speaker terminals on the unit and the speaker matching polarity according to the terminals' color.



*If applicable: Removing the Stand for Wall-Mounting* 

### **Cautions:**

- **1.** Carefully handle the unit during setup and consult authorized service personnel to ensure successful installation.
- **2.** Before performing work spread cushioning over the base area to lay the Display on. This will prevent it from being damaged.
- 3. Disconnect the AC power cord firstly.

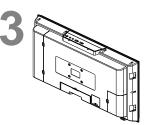


#### Take off the rear cover.

- Do not remove the stand and speaker from the Display unless using an optional bracket to mount it.
- The appearance of the unit may differ from the actual one.
- To attach the stand, perform the steps in reverse order.

2 Screws Stand

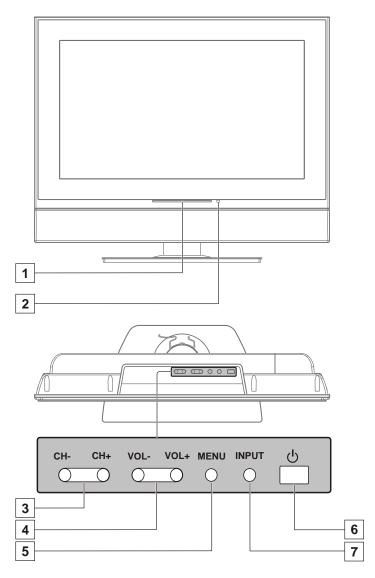
Loosen the screws on the Stand to remove the Stand.



Replace the rear cover

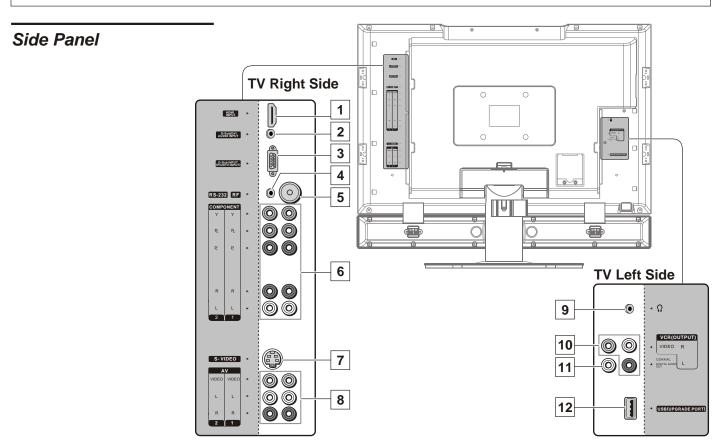
### **TV Controls and Connectors**

## Front Panel



ltem	Item Description	
1 Power Indicator		
2 Remote Sensor	Receives IR (infrared) signals from the remote control.	
3 CH-/CH+	Press to scan through channels. In menu operations, these buttons serve as down/up buttons.	
4 VOL-/VOL+	Press to adjust the volume. In menu operations, these buttons serve as left/right buttons.	
5 MENU	To access the Menu main page.	
6 POWER	Turn the unit on or off.	
7 INPUT	To display the INPUT source list or to quickly select input source.	

### **TV Controls and Connectors**



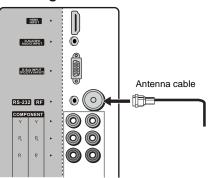
Item	Description	
1 HDMI IN	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box and DVD player. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.	
2 Audio IN for DVI or D-Sub interface	Use this audio input when you are using DVI connection or D-Sub connection. A HDMI-to-DVI adapter is necessary when you are connecting a DVI-equipped device to this TV.	
3 D-Sub IN	Connects to a PC or other Analog RGB devices such as Video Conferencing or Set-top Boxes.	
4 RS-232 terminal	For service only. The user should not use this terminal.	
5 RF IN	RF input that connects to your cable system or outdoor antenna.	
6 Componet Video	Connect to your DVD player's or digital set-top box's component video (YPbPr) and audio $(L/R)$ jacks. Component video provides better picture quality than the S-VIDEO or the composite video connections.	
7 S-VIDEO input	Connects to the S-VIDEO output jack of your VCR or other video equipment that has S-VIDEO. S VIDEO provides better picture quality than the composite video connection.	
8 Composite Video	Connect to the composite video and audio output jacks on your VCR or other video device.	
9 Headphones jack	Connects to your headphones. If your headphones do not match the jack, use a suitable plug adaptor (not supplied).	
10 Video/Audio OUT	Connects to your VCR to record programs as desired or connects to hook up a second TV or monitor. Only analog TV programs, AV1and AV2 input sources can be output through the AV output jacks.	
11 Coaxial Digital Audio OUT	Connects to the digital audio input of a digital audio component.	
12 USB Port	For service only. The user should not use this port.	

Basic Connections		
Overview	To display clear crisp pictures, you must connect your TV correctly and choose the correct display format. It is strongly recommended to connect the cable and antenna input using a 75-ohm coaxial cable to receive optimum picture quality signal. A 300-ohm twin lead cable can be easily affected by radio noise and the like, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it as far away as possible from the TV. The way in which you connect your TV will vary, depending on how your home receives a signal (antenna and satellite; cable and cable box). Do not use an indoor antenna, which is especially susceptible to radio noise.	
	Disconnect all power sources before making any connections.	

For best results, use this connection if you have an antenna system.

### Connecting Antenna System

**TV Right Side** 

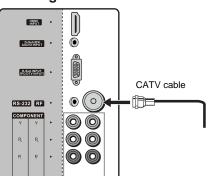


▲) Be sure to choose [Antenna] before you start Auto Program. See chapter [Getting Started] for details.

For best results, use this connection if you have a cable system.

# Connecting Cable System

**TV Right Side** 



■ Be sure to choose [Cable] before you start Auto Program. See chapter [Getting Started] for details.

### **Basic Connections**

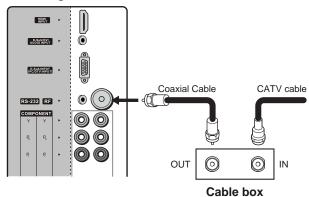
*Connecting Cable Box (Basic)* 

Use this connection if you have a cable system and your cable company scrambles some channels, such as premium channels or all channels (which requires you to use a cable box). Connect the CATV cable to the cable box's input jack. Then use a coaxial

cable to connect the cable box's output jack to the TV's RF input jack. If the cable box has audio/video or S-Video jacks, connect your TV to them for better picture quality and stereo sound.

Note: Sound will be in mono only from the RF output jack of most cable

#### TV Right Side



▲) Be sure to choose [Cable] before you start Auto Program. See chapter [Getting Started] for details.

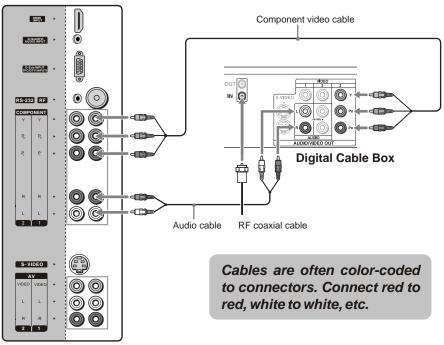
Connect the RF coaxial cable from the cable wall outlet to the input of the digital cable box.

Use a component video cable to connect the YPbPr jacks of your digital cable box to the TV's component jacks.

Component video connection is necessary to view high-definition digital broadcasting in 1080i, 720p, 480i and 480p. This TV displays most format types of picture.

The component jacks do not provide audio, so audio cables must be connected to provide sound.

#### TV Right Side

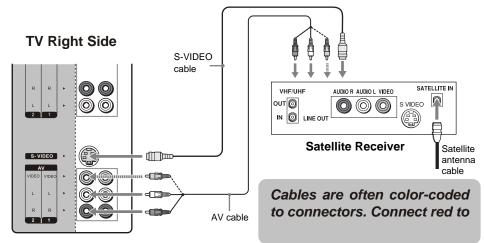


Connecting Digital Cable Box (Best)

### **Basic Connections**

### Connecting Satellite Receiver

Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack. Use AV cables to connect the satellite receiver's AUDIO and S-VIDEO OUT jacks to the TV's AUDIO and S-VIDEO IN jacks.



()) If your satellite receiver is not equipped with S-VIDEO, use a VIDEO cable (yellow) instead of the S-VIDEO cable.

### Connecting Digital Satellite Receiver

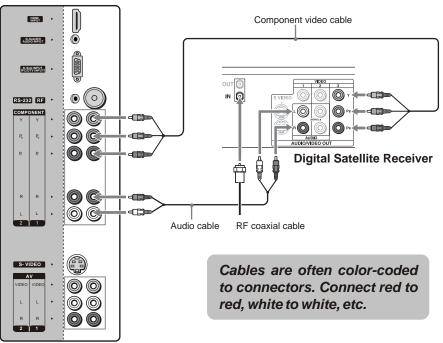
Connect the RF coaxial cable from the satellite dish to the input of the digital satellite receiver.

Use a component video cable to connect the YPbPr jacks of your digital satellite receiver to the TV's component jacks.

Component video connection is necessary to view high-definition digital broadcasting in 1080i, 720p, 480i and 480p. This TV displays most format types of picture.

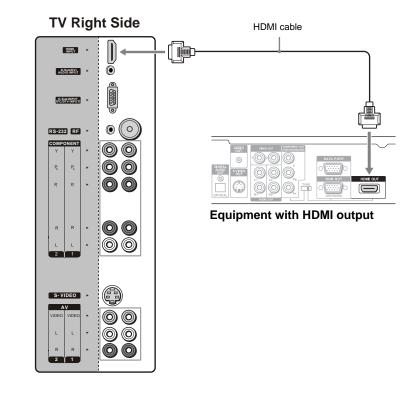
The component Jacks do not provide audio, so audio cables must be connected to provide sound.

#### TV Right Side



Introduction	You can connect many types of external equipment to your TV, like a DVD player, VCR, Digital TV tuner, PC, HDMI equipment, game console and camcorder. To view external source images, select the input source from <b>INPUT</b> on the remote control unit or on the Display.
	Notes and Cautions:
	<ul> <li>Disconnect all power sources before making any connections.</li> <li>Carefully check the terminals for position and type before making any connections.</li> <li>The packing contents of this TV may not include the cables or adaptors mentioned in this chapter.</li> <li>Refer to your external equipment operation manual carefully before making connections.</li> </ul>
	<ul> <li>Loose connectors can result in image or color problems. Make sure that all connectors are securely inserted into their terminals.</li> <li>Refer to your external equipment operation manual for the signal type.</li> <li>The illustration of the external equipment may be different depending on your model.</li> </ul>
Equipment with HDMI Connection	For best results, use this connection if your equipment has a High-Definition Multimedia Interface (HDMI). Using a HDMI cable, connect the equipment's HDMI OUT jack to the TV's HDMI

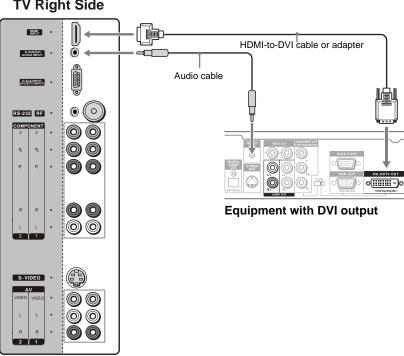
Using a HDMI cable, connect the equipment's HDMI OUT jack to the TV's HDMI IN jack.



▲ The HDMI jack provides both video and audio signals, so it is not necessary to connect the audio cable.

### Equipment with DVI Connection

If you are connecting equipment with a DVI connector to this TV, you will need to use an adapter. You can use a commercial HDMI-to-DVI cable or an HDMI adapter. Both are available at your local electronics store. When you use the adapter, you will also need to use separate audio cables for sound as DVI connector is for video signals only.

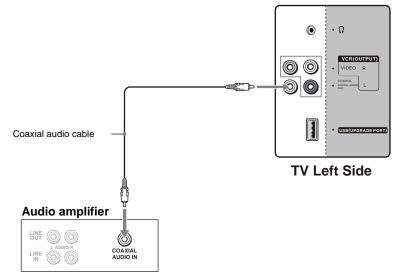


**TV Right Side** 

Equipment with Coaxial Digital Audio

You can use the TV's Coaxial Digital Audio OUT jack to connect a digital audio device, such as an audio amplifier.

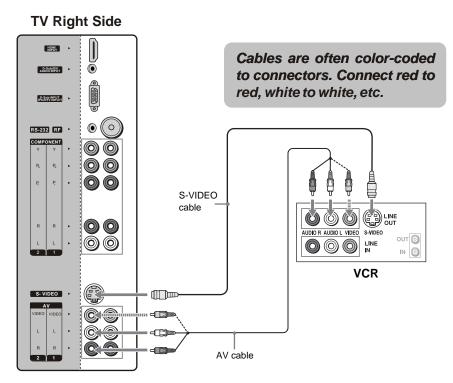
Use an coaxial audio cable to connect the TV's Coaxial Digital Audio OUT jack to the device's Coaxial Digital Audio IN jack.



()) The Digital Audio OUT jack is available only when a digital TV channel is received.

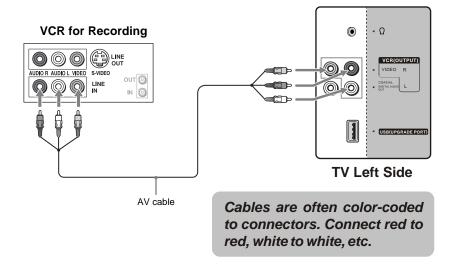
# *Connecting a VCR for Playing Back*

Use AV cables to connect the VCR's AV output jacks to the TV's AV input jacks. If your VCRs have S-VIDEO jacks, for best picture quality, use an S-VIDEO connection instead of the video cable (yellow) on your combined A/V cable. Use a S-VIDEO cable to connect the VCR's S-VIDEO OUT jack to the TV's S-VIDEO IN jack. S-VIDEO does not provide audio, so audio cables must be connected to provide sound.



▲) The S-video terminal share the same audio jacks with video2 and has priority over the video2 jack.

Use AV cables to connect the VCR's AV input jacks to the TV's VCR output jacks.



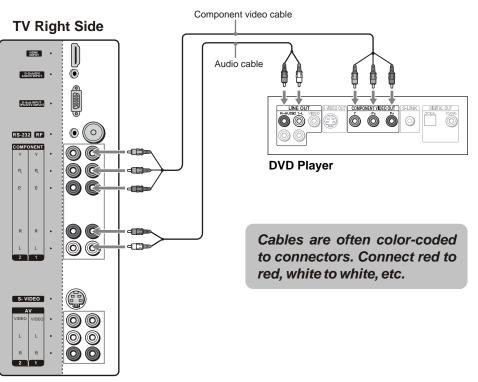
Only analog TV programs, AV1and AV2 input sources can be output through the AV output jacks.

Connecting a VCR for Recording

### Connecting a DVD Player with Component Video Connectors

Use a component video cable to connect the DVD player's YPbPr jacks to the TV's YPbPr jacks.

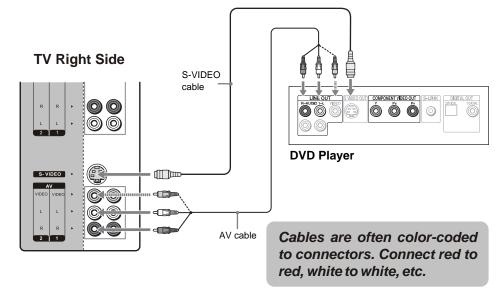
Use an audio cable to connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks. Be sure to use the same row of inputs that you used for the video connection.



▲) The YPbPr jacks on your DVD player are sometimes labeled YCbCr, or Y, B-Y and R-Y. If so, connect the cables to like colors.

Use an AV cable to connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks.

Use a S-VIDEO cable to connect the DVD player's S-VIDEO OUT jack to the TV's S-VIDEO IN jack.



▲) If your DVD player is not equipped with S-VIDEO, use a VIDEO cable (yellow) instead of the S-VIDEO cable.

and Audio Connectors

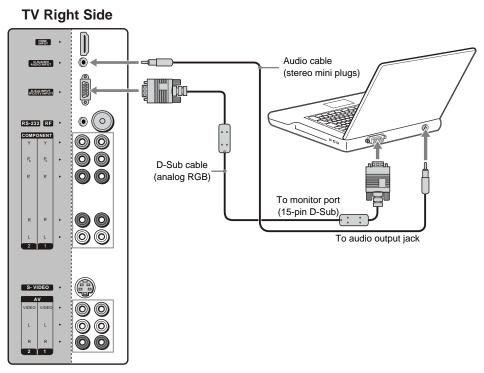
Connecting a DVD

Player with S-Video

### Connecting a PC

If you connect your PC to the TV, you can watch your personal computer's display on the TV.

When your PC is connected to the TV with the D-Sub cable and audio cable, you can view and listen to the PC's video and audio output on the TV.



**Connecting a Camcorder** Use an AV cable to connect the camcorder or "PlayStation" AV output jacks to the TV's AV input jacks.

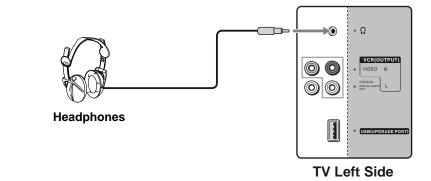
### or "PlayStation" "PlayStation" Camcorder or **TV Right Side** 00 $\odot$ H S-VIDEO 00 00 -63 OC AV cable 2 1 Cables are often color-coded to connectors. Connect red to red, white to white, etc.

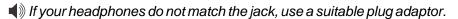
The TV has a special signal output capability which allows you to hook up a Connecting a Second second TV or monitor. **TV or Monitor** Connect the second TV or monitor to the TV's VCR output jacks. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings. ۲ ۰ ۵ VC AUDIO R AUDIO L VIDEO œ Second TV AV IN  $\bigcirc$  $\bigcirc$ or Monitor USB(UPGRADE PORT **TV Left Side** AV cable Cables are often color-coded to connectors. Connect red to

> Only analog TV programs, AV1 and AV2 input sources can be output through the AV output jacks.

red, white to white, etc.

Insert the plug of the headphone into the TV's Headphone jack. When using headphones, adjust the headphone volume so to avoid excessive levels, as hearing damage may result.



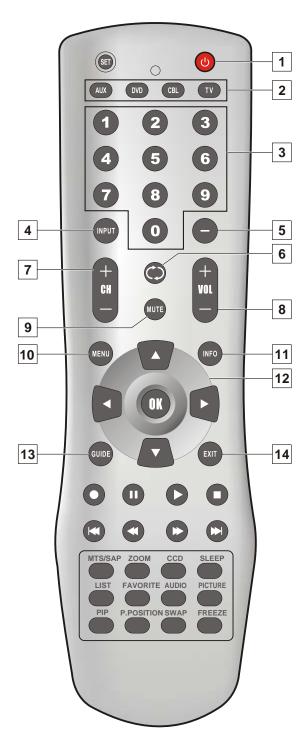


Connecting Headphones

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Insert Batteries into the Remote Control	Insert two size AA batteries by matching the <b>o</b> and <b>o</b> on the batteries to the diagram inside the battery compartment.		
	Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.		
	<ul> <li>Place batteries with their terminals corresponding to the (+) and (-) indications.</li> <li>Different types of batteries have different characteristics. Do not mix batteries of different types.</li> <li>Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.</li> <li>Remove batteries as soon as they are non-operable. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe with a cloth.</li> <li>The batteries supplied with the product may have a shorter life expectancy due to storage conditions.</li> <li>If the remote control is not used for an extended period of time, remove the batteries from the remote control.</li> </ul>		
Using the Remote Control	Use the remote control by pointing it towards the remote sensor window of the set. Objects between the remote control and sensor window may prevent proper operation.		
	Cautions regarding use of remote control		
	<ul> <li>Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place in an area with high humidity.</li> <li>Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.</li> <li>The remote control may not work properly if the remote sensor window of the main unit is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or TV set, or operate the remote control closer to the remote sensor window.</li> </ul>		
	This above illustration is for reference only. The remote sensor may be in different locations on different models.		

## **Button Descriptions**



Button	Description
1 POWER	Turn the unit on or off.
2 AUX, DVI CBL, TV	<b>D</b> , To select additional products to be controlled with remote control.
	This is a universal remote control. If your remote control does not work correctly when you operate the unit, please try to press the TV button.
3 0-9 numb buttons	<b>er</b> Use these number buttons to select channel or input password.
4 INPUT	To display the INPUT source list or to quickly select input source.
5 Dash (-)	To enter a program number for multiple program channels such as 2-1, 2-2, etc.
6 FLASHB	<b>ACK</b> To switch between the currently tuned channel and the previously tuned channel.
7 CH+, CH-	To select channels upward or downward.
8 VOL+, VC	<b>DL-</b> To adjust volume.
9 MUTE	To mute the sound.
10 MENU	To access the Menu main page.
11 INFO	To access the program guide.
12 ▲, ▼	To move upward or downward in menu operation;
▶ ; ◀	To move left or right in menu operation; To adjust selected menu item in menu operation;
OK	To confirm or alter the settings of the selected menu item.
13 GUIDE	To access the program guide.
14 EXIT	To exit menu.

# **Introducing the Remote Control**

**Button Descriptions** 



Button	Description
15 ZOOM	To select a screen aspect ratio.
16 CCD	To select closed caption mode.
17 MTS/SAP	To select a stereo, sap or mono for analog channels; also used to select audio track for digital channels.
18 SLEEP	To set sleep timer.
19 LIST	To access the master channel list.
20 PICTURE	To select a preset picture mode.
21 FREEZE	To freeze current picture.
22 FAVORITE	To access the favorite channel list and select from 3 different favorite lists.
23 AUDIO	To select a preset sound mode.

# **Getting Started**

### **Running Initial Setup**

Perform these steps before you press **POWER**  $\bigcirc$  on the remote control to turn on your TV set.

1. Insert the batteries into the remote control unit.

- 2. Connect the antenna cable to the TV.
- 3. Plug in the AC power cord to the AC outlet.

After you finish connecting the TV, you can run the Initial Setup to create a list of available analog and digital channels. The Initial Setup screen appears when you turn on the TV for the first time. We strongly recommend you to perform initial setup according to the steps below.

### Select Language

Press  $\blacktriangle/\forall$  to select the desired language listed on the screen, and then press OK to confirm and continue.

### Select Time Zone

Press  $\blacktriangle/\blacksquare$  to select a proper time zone according to your area, and then press OK to confirm and continue.

If you want to return to previous screen, please highlight [GO BACK] item and press OK to return.

## Setting Daylight Saving

Press ▲/▼ to highlight [Yes] item if you want to observe daylight saving, or [No] to abandon daylight saving and then press OK to confirm and continue. If you want to return to previous screen, please highlight [GO BACK] item and press OK to return.

## Selecting RF Input Source

Press ▲/▼ to select [Antenna] or [Cable] according to what kind of connection is made to your TV, and then press OK to confirm and continue. If you choose [Antenna], the TV starts Auto Program automatically.

If you choose [Cable], there are 3 kinds of CATV system, including STD, HRC and IRC. Select the one matches to your TV. Select Automatic when you do not know which one to select.

If you want to return to previous screen, please highlight [GO BACK] item and press OK to return.

### Start Auto Program ...

Once you have finished selecting RF input source, the unit starts auto program.

Auto Program may take a while to complete. A progress bar is displayed while available analogue and ATSC digital channels are being scanned. If you select [Stop Scan] to cancel the Auto Program before all receivable channels are scanned, you need to run Auto Program again at a later time.

Auto Program will create a list of receivable channels for the current input . You will be required to run Auto Program for RF input to create a list of available channels.

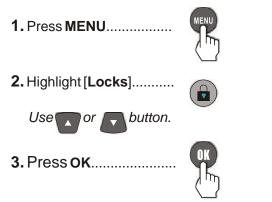


Scanning may take a few minutes - Please be patient

(Example)

## Setting a Secret Number (Password)

For additional protection to your TV and to your user's settings from being accidentally changed, you may want to set a secret number first as below.





The TV allows you to set a secret number when you access the [Locks] menu for the first time.

You may use 0-9 number buttons to enter a new four-digit secret number, and then confirm the new secret number by entering it again.

Once the secret number is set successfully, the TV requests you to enter the secret number if you are going

- Access the [Locks] menu.
- Scan channels automatically.
- Find a channel manually.
- View a blocked program.
- Reset all settings to defaults by using the [RESET ALL] item in [Settings] menu.

As a precautionary measure, make a note of your secret number and keep it in a safe place.

# Menu Navigation

1.	MENU	Press to display the Main menu.			
2.		- Press to highlight the menu items.	Picture Audio	Picture Settings Screen Settings Aspect Ratio	
3.		Press to enter the sub-menu field.	<ul><li>Settings</li><li>Channels</li></ul>	Color Temperature Cinemotion 3D Comb Filter Temporal NR	
		Press to select items in the sub-	<ul><li>健 Locks</li><li>健 Guide</li></ul>	RESET PICTURE	
4.		Press to adjust the selected items or	move the on-scre	en cursor in the s	sub-menu.
1		<ul> <li>Press to confirm your operation or all</li> </ul>	ter the settings for	some items such	n as [Cinemotion].
5.	MENU	Press to return to previous screen.			
6.	EXIT	Press to return to normal picture.			



Turning On/Off	<i>Turning On</i> First plug in the AC power cord to the AC outlet.		
	Press <b>POWER</b> <sup>(1)</sup> on the TV or press <b>POWER</b> <sup>(1)</sup> on the remote control.		
▲ Never attempt to move the TV unless the AC power cord has	The initial setup starts when the TV powers on for the first time. If the TV has been turned on before, it displays current input signal directly.		
been disconnected.	Turning Off		
	Press <b>POWER</b> 也 on the TV or press <b>POWER</b> 也 on the remote control. The TV enters standby mode and the image on the screen disappears.		
	The TV will still consume some power as long as the AC power cord is still inserted into the wall outlet.		
	■ If you are not going to use this TV for a long period of time, be sure to remove the AC power cord from the power outlet.		
Channel Numbers	This television is capable of receiving the full range of cable-TV channels available today, from the digital and HDTV channels, to the traditional analog channels.		
	As the transition toward full digital TV continues, some cable-TV systems in North America will have a mixture of analog and digital channels in their lineups. So in most situations the ATSC PSIP channel number is composed of a major channel number and a minor channel number. The major channel number is same for both analog and digital channels (It is equal to the NTSC channel number for existing broadcasters). An analog channel usually has a minor channel number of zero, while a digital channel usually has a minor channel number of 1, 2 or larger.		
	You can select analog channels in serveral ways.		
Selecting Channels	Method 1 - Using CH+ or CH- on the remote control or on the TV Press the CH+ or CH- to cycle among all available channels. Only those channels marked with a tick symbol can be selected by the CH+ or CH- button.		
	Method 2 - Using FLASHBACK I on the remote control         Press FLASHBACK to switch to the previously tuned         channel.         Press FLASHBACK again to switch back to the currently         tuned channel.		
	Method 3 - Using 0-9 and OK on the remote control		
	<ul> <li>For analog TV channels</li> <li>Press the 0-9 number buttons to input a channel number and confirm with OK to select up to 125 channels for VHF/UHF/CATV.</li> </ul>		

# Watching TV

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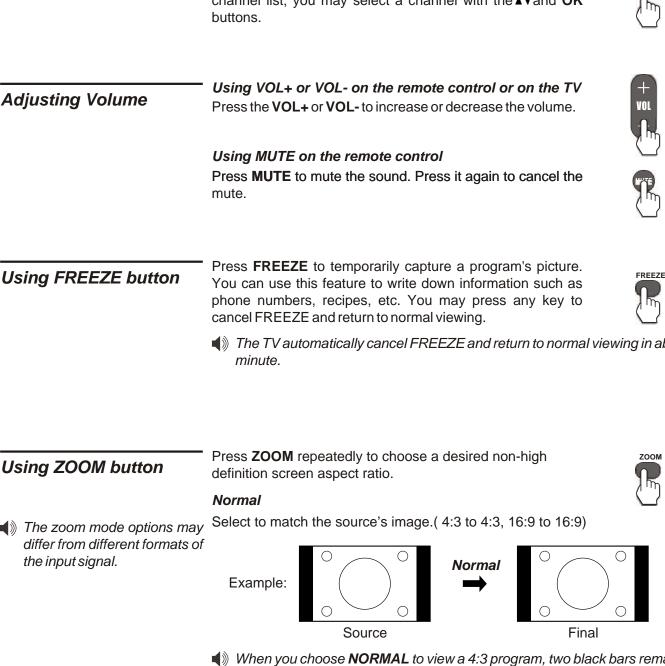
### Press the 0-9 number buttons and dash(-) to input a digital 2 3 channel number; the TV goes to the selected channel directly. 5 6 (4 (e.g., channel 8-3, just press 8, - and 3 one by one) (8) 9 (7) (without) If you enter channel number with 0-9 only 0 pressing OK), channel selection will be made if there is no operation for a few seconds. Method 4 - Using master channel list LIST Press the **LIST** button to display the master channel list; you may select a channel with the ▲▼ and OK buttons. Method 5 - Using favorite channel list AVORITE Press the **FAVORITE** button to display a desired favorite channel list; you may select a channel with the▲▼and OK VOL

Using FREEZE button

Selecting Channels

- lacksquirn The TV automatically cancel FREEZE and return to normal viewing in about a minute.
- Press **ZOOM** repeatedly to choose a desired non-high Using ZOOM button definition screen aspect ratio. Normal Select to match the source's image. (4:3 to 4:3, 16:9 to 16:9) The zoom mode options may differ from different formats of the input signal. Normal Example:  $\bigcirc$  $\cap$ 
  - ()) When you choose **NORMAL** to view a 4:3 program, two black bars remain on the two sides of the screen.

To protect the screen, when you are viewing a 4:3 program, please DO NOT use the NORMAL feature for a long period of time.



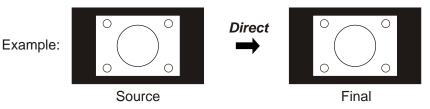
• For digital TV channels



### Using ZOOM button

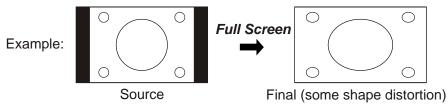
#### Direct

Select to detect the resolution of the signal and display an image with the same number of pixels on the screen.



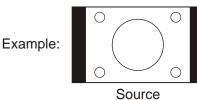
#### Full Screen

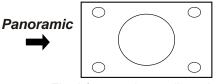
Select to enlarge the 4:3 picture horizontally only, to fill the display area.



#### Panoramic

Select to enlarge the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible.

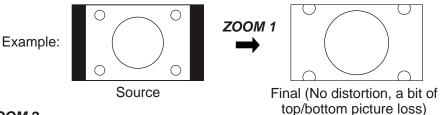




Final (some shape distortion)

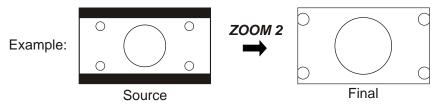
#### ZOOM 1

Select to enlarge the picture horizontally and vertically to an equal aspect ratio that fills the wide screen.



### **ZOOM 2**

Select to view wide-screen DVDs in full screen.



Different zoom settings may be appropriate, depending on the program content.

Depending on the signal tuned, you may see different MENU options on your screen. As an example, Menus displayed below are based on TV mode.

### Picture Control

### Accessing Picture Menu



To highlight an option and to change settings, press ▲▼◀► . Press OK to confirm the selection or alter the settings. Press EXIT to exit.

Selecting Picture	Option	Description
Options	Picture Settings	Select to access a picture adjustment window, see [Adjusting Picture Settings] on next page.
	Screen Settings	Select to access a screen adjustment window for VGA or Component input, see [ <i>Adjusting Screen Settings</i> ] on next page.
▲ )) To quickly change the aspect ratio, press the <b>ZOOM</b> button repeatedly.	Aspect Ratio	Select to access a window in which you can choose a proper aspect ratio for 4:3 or 16:9 program, please refer to the explanation on the screen when making a choice. Select from [Normal], [Direct], [Full Screen], [Panoramic], [ZOOM 1] and [ZOOM 2].
	Color Temperature	Choose from the following color temperatures:
		<b>Cool</b> Select to give the white colors a blue tint.
		<b>Neutral</b> Select to give the white colors a neutral tint.
		Warm Select to give the white colors a red tint.
	Cinemotion	Select [ON] to optimize the screen display automatically detecting film content and applying a reverse 3-2 pull down process. Moving picture will appear clearer and more natural looking. Select [OFF] to disable the detection.
	3D Comb Filter	Select to provides high quality images with minimal dot crawl and cross color noise.
		Off Select for normal images
		Low Select for lower Mosquito Noise Reduction.
		Medium For moderate Mosquito Noise Reduction
		High         For enhanced Mosquito Noise Reduction
	Temporal NR (Anolog)	Select to reduce the noise level of connected equipment. This also reduces the noise level to the signal from the RF jack. Select from [Off], [Low], [Medium] and [High].
	RESET PICTURE	Select to reset picture settings and adjustments to the defaults.

### **Picture Control**

### **Adjusting Picture** Settings

Picture Sett	Picture Settings: TV		
Preset	Custom		
Brightness	25		
Contrast	25		
Saturation	25		
Tint	25		
Sharpness	20		
DONE			
Choose among different preset adjustments for your TV picture			

# Option

## Description

Preset	reset Select to choose a picture mode to best match the environment of the TV, which can vary due to factor room brightness, type of program watched or the typ image input from external equipment.				
	<b>Standard</b> Select for a highly defined image in a normally bright room.				
	Vivid	Select for enhanced picture contrast and sharpness.			
<b>Movie</b> Select for a movie.		Select for a movie.			
	<b>Pro</b> Select for a normal picture.				
	<b>Custom</b> Select to customize the picture as desired.				
$\blacksquare ) To quickly change the second se$	e picture m	ode, press the <b>PICTURE</b> button repeatedly.			
Brightness	Selectt	Select to adjust picture brightness.			
Contrast	Selectt	Select to adjust picture contrast.			
Saturation	Select to adjust color saturation for current picture.				
Tint	Selectt	Select to adjust natural flesh tones.			
Sharpness	Select	Select to adjust clarity of outline detail.			

### Adjusting Screen Settings

Adjustment Settings		
Horizontal		
Vertical		
Phase	17	
	Auto Sync DONE	
Use left and right arrows to change horizontal position		

Option	Description
Horizontal	Select to adjust horizontal position for the image.
Vertical	Select to adjust vertical position for the image.
Phase	Adjust when characters have low contrast or when the image flickers.
Auto Sync	Select to automatically adjust the PC image.

If there is no picture, check your computer's video refresh rate. Reduce to 60 Hz.

- ◀ ) The [Screen Settings] window can't be accessed unless the TV works in VGA or Component mode.
- When the TV works in Component mode, only [Horizontal] and [Vertical] items are available.

# Audio Control

#### Accessing Audio Menu 1. Press MENU..... B Picture Bass, Treble & Balance Phone Settings Audio Effects 2. Highlight [Audio]..... Auto Volume Control OFF 😑 Settings Coaxial Out (SPDIF) Use or button. Analog Preference Channels Digital Preference TV Speaker ON Locks 3. Press OK..... RESET AUDIO 💾 Guide

To highlight an option and to change settings, press ▲▼◀► . Press OK to confirm the selection or alter the settings. Press EXIT to exit.

Selecting Audio	Option	Description
Options	Bass, Treble & Balance	Select to access an audio adjustment window.
		Bass Adjust to increase or decrease lower-pitched sounds.
		<b>Treble</b> Adjust to increase or decrease higher-pitched sounds.
		<b>Balance</b> Adjust to emphasize left or right speaker balance.
	Phone Settings	Select to access a phone settings window. All adjustments this window have an effect on the headphone only.
		Volume Adjust to increase or decrease phone volume.
		<b>Bass</b> Adjust to increase or decrease lower-pitched sounds.
		<b>Treble</b> Adjust to increase or decrease higher-pitched sounds.
		<b>Balance</b> Adjust to emphasize left or right speaker balance.
()) To quickly change the audio mode,	Effects	None Select to turn off the sound effect.
press the <b>AUDIO</b> button		Hall Select for a concert program.
		Theater Select for a movie program.
		Music Select for a music program.
		Speech Select for a spoken dialog program.
	Auto Volume Control	<b>ON</b> Select to equalize overall volume levels across all channels
		<b>OFF</b> Select to turn off Auto Volume Control.
	Coaxial Digital	AUTO Select to output audio signal as its original format.
	Out (SPDIF)	<b>PCM</b> Select to output audio signal by PCM form.
	Analog Preference	Mono Select for mono reception. Use to reduce noise during we stereo broadcasts.
<ul> <li>For analog channels, you may use the MTS/SAP button to cycle through the Multi-channel TV Sound options.</li> <li>For digital channels, you may use the MTS/SAP button to quickly</li> </ul>		Stereo Select for stereo reception when viewing a progra broadcast in stereo.
		<b>SAP</b> Select to automatically switch the TV to second aud programs when a signal is received. If no SAP signal present, the TV remains in Stereo mode.
	Digital Preference	When you are viewing a digital program with which additional languages are broadcasted (usually English Spanish or French), then you may use this item to select language as desired.
	TV Speaker	Select to turn the TV speakers ON or OFF.
	RESET AUDIO	Select to reset audio settings to the defaults.

# Setting Channels

## Accessing Channels Menu



To highlight an option and to change settings, press ▲▼►◄. Press OK to confirm the selection or alter the settings. Press EXIT to exit.

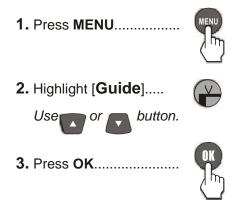
Selecting Channel	Option	Description
Options	Master List	Select to display all available channels scanned by Auto Program in initial setup. See [ <i>Setting Channel List</i> ] on this page.
	Favorites	Allows you to setup favorite channels in 3 different categories. See [ <i>Setting Favorite Channels</i> ] on next page.
	Scan Channels	<ul> <li>Allows you to run Auto Program manually. You may need to run Auto Program manually if you interrupt the Auto Program process in initial setup. Please refer to [<i>Running Initial Setup</i>] for the detailed steps.</li> <li>You will be asked to input a correct secret number before you access the [Channel Scan] screen.</li> </ul>
	Find Channel	Allows you to find channel manually by input the RF channel number. Please contact your local station or cable operator for this RF channel number information. You will be asked to input a correct secret number before you access the [Find Channel] screen.
	Channel Name Edit	Allows you to assign labels (such as station call letters) to a selected channel. See [ <i>Editing Channel Name</i> ] on next page.
Setting Channel List	mark or unmark the those channels marked be selected by the <b>C</b> unmarked channel(s) 0-9 number buttons. Mark All: select to mar Unmark All: select to u Digital Only: Select to	Pross OK to finish
	$\blacksquare$ Also, you may access the master channel list by pressing the <b>LIST</b> button.	

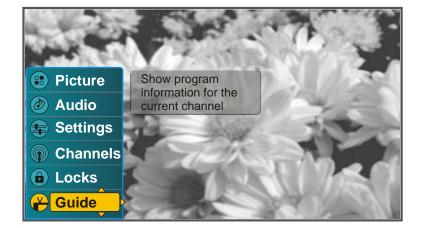
Setting Channels	
Setting Favorite Channels	The unit allows you to setup 3 groups (FAV 1, FAV 2 and FAV 3) of favor channels. You may set up to 16 channels for each favorite channel list.
Unamicis	Use this item to choose Fav 2 Sports FAV 1, FAV 2 or FAV 3
	Use this item to deselect all channel — Unmark All 2.1 KFOX-HD
	Use this item to rename
	Select this item when you finish
	Rename Favorite Channels List
	<ul> <li>The unit has assigned a name for each favorite list. For example, the preset name of FAV 2 is Sports. The unit also allows you to rename each list as desired.</li> <li>Press AV &gt; 4 to move through the label characters (A-Z, 0-9, etc.). Then press OK to select the highlighted character. Repeat to add characters to the label.</li> <li>Back: select to move cursor backward for one character.</li> <li>Shift: select to change uppercase or lowercase for A-Z.</li> <li>Clear: select to clear current inputs.</li> <li>Select [Done] when you finish labeling current list.</li> </ul>
Using the FAVORITE button	Press <b>FAVORITE</b> button repeatedly to quickly select [FAV 1], [FAV 2] or [FAV The screen displays current favorite list name and those favorite channels und current list so that you can easily accessing them by press ▲or ▼ buttons. If current channel has been assigned to current list, the unit allows you to remove current channel from current list by selecting [Remove] item. Also, if current list does not include current channel, the unit allows you to add current channel into current list by selecting [Add] item.
Editing Channel Name	Master List   Favorites   Scan Channels   Find Channel   Channel Name Edit        Dress OK   or ? button.     Channel name in channel list.     Proce OK     Proce OK     Proce OK     Proce OK     Channel Name Edit     Channel Name Edit
	Press OK Done button. Press OK to finish

The unit allows you to assign a label to all available channels as desired by using this feature. In the [Channel Name Edit] window, you need to select a desired channel you want to rename. Please use ▲▼▶ 4 and OK buttons to input a desired label name. Be sure to select [Done] item when you finish input.

## Using the Program Guide

### Accessing Program Guide

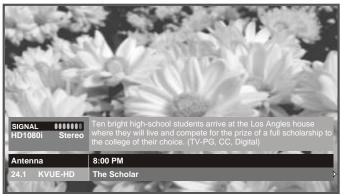




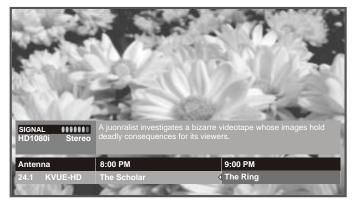
Using the Program Guide This TV is equipped to show program information if it is available from the station. The Program Guide provides some information for current viewing program and next program if next program information is available. The information may include channel number, channel name, program title, broadcast time, brief introduction, etc. Normally, you may access program guide by:

- Using the [*Guide*] menu.
- Using the **GUIDE** button.
- Using the INFO button.

Press the **GUIDE** button while watching a program, a simplified information windows appears with channel number, channel name, program title, etc. If you want to view more detailed information such as program introduction, press the  $\blacktriangle$  or **GUIDE** button.



If the information of next program is available, a triangle appears on the bottomright part of the screen, you may press the ▶ button to access.



## Setting System

#### Accessing Settings Menu 1. Press MENU..... Date & Time **Picture** 88) Timers 2. Highlight [Settings]..... Audio D Input Select **Closed** Captions **Settings** Use or button. Menu & Displays RESET ALL Channels Locks 3. Press OK..... Guide Y)

To highlight an option and to change settings, press AV> <. Press OK to confirm the selection or alter the settings. Press EXIT to exit.

Setting Date & Time	Date & Time Timers Input Select Closed Captions Menu & Displays RESET ALL Press OK or ▶ button. ▶	Clock/Calendar         Today's Date       Current Time         June 29, 2006       6:29 PM         Time Zone       Eastern (US, CAN)            E Adjust for Daylight Saving Time           Cone             M Adjust for Daylight Saving Time           Cone             Press OK to finish           Press OK to finish
	Option	Description
	Today's Date	Select to set date.
	Current Time	Select to set current time.
	Time Zone	Select a proper time zone according to your local area.
■ When the [Auto-Update Time] a		Select to observe daylight saving time.
set to ON, the [Today's Date] an [Current Time] items can't b accessed.		Select to automatically update time from the service provider if this information is broadcasted with the program as well.

## Setting Timer

Date & Time	
Timers	Timers
Input Select Closed Captions Menu & Displays RESET ALL	Timer is on Start Time Duration 8:00 PM 01:30
Press OK	Press OK to finish

()) By using the **SLEEP** button, the TV allows you to set the amount of time (15 minutes, 30 minutes, 45 minutes, 60 minutes or 90 minutes) Timer is on that you want the TV to remain on Start Time before shutting off automatically. If you unit c

	before shutting off automatically.		at the selected time.
	If you select [Leave TV on], the unit cancel the sleep timer setting.	Duration	Select to set a duration time that you want the TV to remain on before shutting off automatically.
<b>\</b>	When the TV automatically turns or the duration time and remains on un		rates the TV by pressing any button, the TV automatically cancels

Description

Select to activate current timer.

Select to set a start time so that the TV automatically turns on

You need to set the Timer again to use this feature another time.

Option

# Setting System

Input Select	Date & Time Timers Input Select Closed Captions Menu & Displays RESET ALL Press OK or ► button.	<ul> <li>Select to view TV programs</li> <li>AV1 Select to view programs from AV1 inputs.</li> <li>SV/AV2 Select to view programs from AV2 or S-video</li> <li>Component1 Select to view programs from Component1 inputs.</li> <li>Component2 Select to view programs from Component2 inputs.</li> <li>HDMI Select to view programs from HDMI input.</li> <li>Anolog RGB Select to view programs from VGA input.</li> </ul>
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()) To quickly change the input type, press the **INPUT** button repeatedly.

Setting Captions	Option	Description		
	Basic Selection	Allows you to select basic closed caption options.		
		<ul> <li>CC1, CC2, Displays a printed version of the dialog or sound effects of</li> <li>CC3, CC4 a program. (Should be set to CC1 for most programs.)</li> <li>Text1,Text2, Displays network/station information presented using</li> <li>Text3,Text4 either half or the whole screen (if available).</li> </ul>		
	Advanced Selection	Allows you to select advanced digital closed caption options. Select from the available options.		
	Advanced Appearance	Allows you to make additional settings for digital closed caption options. You may set the following items as desired: Text Style, Text Color, Text Opacity, Text Size, Text align Edge Color, Edge Style, Background Color, Background Opacity, Frame Color and Frame Opacity.		
	Caption Preference	Allows you to set digital closed captioning to Basic (digital EIA-608) or Advanced (digital EIA-708). Select from [Always Basic], [Always Advanced] and [Automatic].		
	RESET CC	Select to reset Closed Captions to the default settings.		

# Using the CCD button

Press the CCD button repeatedly to select [Off], [On] or [On when muted].

Option	Description
On	Select to turn on the Closed Captions.
Off	Select to turn off the Closed Captions.
On when muted	Select to turn on the Closed Captions when the TV is muted.

Setting	Menu	&	Display
---------	------	---	---------

Option	Description	
Menu Language	Allows you to select an on-screen menu language. Select from [English], [French] and [Spanish].	
Input Labels Edit	Select to edit input labels as desired or according to the connected device. See [ <i>Editing Input Labels</i> ] on next page.	
Screen Saver	Select to set screen saver. See [ <i>Setting Screen Saver</i> ] on next page.	
RESET DISPLAY	Select to reset display settings to the defaults.	

Setting System			
Editing Input Labels	1. Highlight [Menu & Displays] item in [Settings] menu. Press OK or ► button to access the sub-menu.	Date & Time Timers Input Select Closed Captions Menu & Displays RESET ALL	Menu Language Input Labels Edit Screen Saver RESET DISPLAY
	<ol> <li>Highlight [Input Labels Edit] item. Press OK or ► button to enter.</li> </ol>	Menu Language	TV AV1 SV/AV2 Component1 Component2 HDMI
	<ol> <li>Highlight a desired Input Label you want to edit. As an example, highlight [TV]. Press OK or ► button to enter.</li> <li>Highlight [Custom Label] item. Press OK button to enter.</li> </ol>	AV1 SV/AV2 Component1 Component2	Analog RGB
	<ol> <li>The Label editing window appears. Please use ▲▼►◄ and OK buttons to input a desired label name. Be sure to select [Done] item when</li> </ol>		Sat STB VCR M Label:TV Shift Clear Press OK to finish

Option	Description
Activation Delay	Select to set a delay time before the screen saver is activated when there is no input signal.
Background Color	Select to set a background color when the screen saver is activated.
Test	Select to preview the screen saver.
RESET SCREEN SAVER	Select to reset the settings of the screen saver to the defaults.
	Activation Delay Background Color Test RESET SCREEN

#### Running Reset System

Г

# WARNING: Running the [RESET ALL] item will clear all of your customized settings.

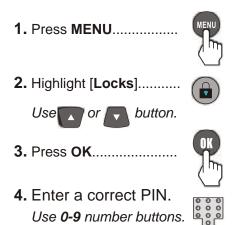
Please make sure that you want to reset all settings to the factory defaults before you perform this operation. You will be asked to input a correct secret number when you select [RESET ALL] item in the [SETTINGS] menu.

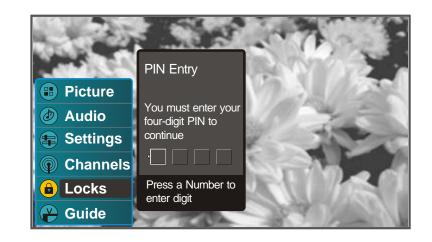
When the system is reset successfully, all customized settings will be cleared and the unit runs initial setup wizard.



### Parental Lock Control

#### Accessing Locks Menu





If it is the first time to access the [*Locks*] menu, the unit allows you to set a secret number as desired, please refer to [Setting a Secret Number] in chapter [*Getting Started*].

Once the correct PIN is entered, the [*Locks*] menu displays as below.

To highlight an option and to change settings, press **AV** Press **OK** to confirm the selection. Press **EXIT** to exit.

Selecting Locks Options	<ul> <li>Ratings Locks</li> <li>Channel Locks</li> <li>Front Panel Lock</li> <li>Change PIN</li> <li>RESET LOCKS</li> <li>For the panel Lock</li> <li>Change PIN</li> <li>RESET LOCKS</li> </ul>	OFF USA Canada
	Option	Description
	Ratings Locks	The rating control gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once you activate this feature in your TV. See [ <i>Selecting</i> <i>Locks Options</i> ] on next page.
	Channel Locks	Select to access [ <i>Channel Locks</i> ] window, in which you may lock channels as desired. In this window, you may select [Lock All] to lock all available channels, or select [Unlock All] to unlock all channels. Also, you may use the AVAD and OK buttons to lock individual channel one by one as desired. The Lock channels will be marked with a symbol. Be sure to select [Done] when you finish setting.
	Front Panel Lock	ON Select to enable the panel buttons.
		<b>OFF</b> Select to disable the panel buttons.
	Change PIN	Select to change PIN as desired. The old PIN is necessary if

RESET LOCKS

you want to change the PIN.

[RESET].

Select to reset the locks settings to the defaults. The customized lock settings will be cleared if you select

#### Parental Lock Control

#### Selecting Locks Options

#### To ensure maximum blocking capability, the age-based ratings should be used.

#### US Custom Rating Options

Option	Descr	iption
USA-TV	Age-Ba	used Options
Block programs by their	TV-Y	All children.
rating, content or both.	TV-Y7	Directed to children age 7 and older.
	TV-G	General audience.
	TV-PG	Parental guidance suggested.
	TV-14	Parents strongly cautioned.
	TV-MA	Mature audience only.
	Conten	t-Based Options
	FV	Fantasy violence.
	D	Suggestive dialog.
	L	Strong language.
	S	Sexual situations.
	V	Violence.
USA-Movie	G	All children and general audiences.
	PG	Parental guidance suggested.
	PG-13	Parental guidance for children under 13.
	R	Restricted viewing, parental guidance is suggested for children under 17.
	NC-17	No one 17 and under admitted.
	X	X is an older rating that is unified with NC-17 but may be encoded in the data of older movies.

#### **Canadian Custom Rating Options**

Option	Descri	ption
CAN-French	G	General programming.
	8 ans+	Not recommended for ages under 8.
	13 ans+	Not recommended for ages under 13.
	16 ans+	Not recommended for ages under 16.
	18 ans+	Programming restricted to adults.
CAN-English	С	All children.
	C8+	Children 8 years and older.
	G	General programming.
	PG	Parental guidance.
	14+	Viewers 14 and older.
	18+	Adult programming.

The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

Viewing Locked or Blocked Programs You can view a locked or blocked program by entering the secret number.

**1.** Tuned to a locked or blocked program.

**2.** Enter your secret number using the 0-9 buttons. Parental Lock will be canceled temporarily until you turn your TV off.

#### Troubleshooting

If, after reading these operating instructions, you have additional questions related to the use of your television, please call the services center in your local area.

Before calling service, please check the symptoms and follow suggested solutions.

#### Remote Control

Problem	Possible Solutions
Remote control does not operate	<ul> <li>The batteries could be weak. Replace the batteries.</li> <li>Check the orientation of the batteries.</li> <li>Make sure the power cord is plugged in.</li> </ul>
Remote control does not operate other brand equipment	<ul> <li>If you replaced the batteries to the remote recently, the code numbers for the video equipment may need to be reset.</li> <li>There may be more than one code for the equipment that you are attempting to operate.</li> <li>There is a possibility that this equipment can only be operated by its original remote control.</li> </ul>

#### Video and Audio

Problem	Possible Solutions
No picture (screen not lit), No sound	<ul> <li>Make sure the power cord is plugged in.</li> <li>Press POWER on the TV or on the remote control.</li> <li>Press the input source select button to cycle through the connected video sources.</li> <li>Try another channel; it could be station trouble.</li> </ul>
Dark, poor or no picture (Screen lit), good sound	<ul> <li>Select a proper picture mode.</li> <li>Adjust the brightness in the video setting.</li> <li>Check the antenna/cable connections.</li> </ul>
No color/dark picture/color Is not correct	• Adjust the color saturation in the video setting.
Only snow and noise appear On the screen	<ul><li>Check the antenna/cable connections.</li><li>Try another channel; it could be station trouble.</li></ul>
Dotted lines or stripes	<ul> <li>Adjust the antenna.</li> <li>Move the TV away from noise sources such as cars, neon signs, or hair dryers.</li> </ul>
Double images	• Using a highly directional outdoor antenna or a cable may solve the problem.
"Black box" on screen	• You have selected a text option in the Setup setting and no text is available. Please try to turn off the Close Caption feature or select CC1 instead of Text1-4.
Good picture, no sound	<ul> <li>The sound may be muted. Press MUTE again to cancel.</li> <li>Make sure the speaker option is set to On in the Audio settings.</li> <li>Make sure the stereo mode is set to stereo or mono.</li> </ul>
Audionoise	• Communication problems may occur if infrared communication equipment (e.g., infrared cordless headphones) is used near the TV. Move the infrared communication equipment away from the TV until the noise is eliminated.

## Troubleshooting

#### General

Problem	Possible Solutions
One or some channels can't be displayed	<ul> <li>These channels may be locked. Please unlock them (see Lock settings).</li> <li>These channels may be set to hidden in the master channel list. You may mark them with the tick symbol to cancel hidden or select them with 0-9 number buttons.</li> </ul>
Lost password	• On the password screen, enter the following master password: 1397. You may use the master password to set a new password as desired. Please remember your new password and store it carefully.
Some items can't be accessed	• If a setting option appears in gray, this indicates that the settings option is unavailable in current input mode.
TV cabinet creaks	• When the TV is in use, there is a natural rise in temperature, causing the cabinet to expand or contract and may be accompanied by a slight creaking noise. This is not a malfunction.
Control buttons do not operate	• Disconnect the power cord and wait for a few seconds. Then re-plug the power cord and turn on the unit again.

#### Notes:

If your problem is not solved, turn your unit off and then on again.

#### **Cautions:**

Never attempt to repair a defective TV yourself.

Care and Maintenance	9
About Temperature	<ul> <li>Do not use in hot and cold rooms (locations)</li> <li>When the unit is used in rooms (locations) with low temperature, the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.</li> <li>Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the screen to malfunction.</li> <li>Storage temperature: 0°C to +50°C</li> <li>Working temperature: 5°C to +40°C</li> </ul>
About After-Image	<ul> <li>The extended use of fixed image program material can cause a permanent after-image on the screen.</li> <li>This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible screen deterioration can be limited by observing the following steps:</li> <li>A. Reduce the brightness/contrast setting to a reasonable viewing level.</li> <li>B. Do not display the fixed image for extended periods of time.</li> <li>C. Turn the power off when not in actual use.</li> <li>Important Information Regarding Use of Video Games, Computers, Captions or Other Fixed Image Displays.</li> <li>Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the screen.</li> <li>Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.</li> <li>CAUTIONS:</li> <li>The pormanent after image on the screen resulting from fixed image use</li> </ul>
<i>Cleaning and Maintenance</i>	<ul> <li>The permanent after-image on the screen resulting from fixed image use is not an operating defect and as such is not covered by the warranty.</li> <li>This product is not designed to display fixed images for extended periods of time.</li> <li>To clean this unit, wipe with a soft, dry cloth.</li> <li>If the surfaces are extremely dirty, use a soft cloth dipped in a soap and water solution or a weak detergent solution.</li> <li>Use eyeglass cleaner to remove stubborn dirt from the screen.</li> <li>Never use alcohol, paint thinner or benzine to clean this unit.</li> <li>Before using a chemically treated cloth, read the instructions that came with the cloth carefully.</li> </ul>

#### **Specifications**

Туре		LCDTV
Pane		27" TFT LCD, 16:9 aspect ratio
-	/stem:	American TV standard ATSC/NTSC System
Rece	iving Channel:	
	VHF/UHF:	VHF 2-13ch, UHF 14-69ch
	CATV:	1-125ch
	Digital Terrestrial Broadcast:	2-69ch
	Digital cable:	1-135ch
Audio	o multiplex:	BTSC System
Audio	o out:	8W 2
Powe	er Requirement:	AC 120 V, 60 Hz for North America
		AC 100-240 V, 50/60Hz for others
Powe	er Consumption:	140 W
Dime	ensions (W X H X D in inches):	27.6 22.9 9.1
Weig	ht:	41.9 lbs/19 kg
Term	inals:	
	Composite Video/Audio(L/R):	2
	S-video:	1
z	Component Video/Audio(L/R):	2
=	HDMI interface:	1
	D-Sub/Audio:	1
	Antenna:	1
	Composite Video/Audio(L/R):	1
OUT	Coaxial Digital Audio Out:	1
	Headphone jack:	1
trol	RS-232:	1
Control	USB Port:	1

• As part of policy of continuous improvement, the manufacturer reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

## Programming your Remote Control (on applicable models)

Terretoria	
Introduction	On some models your remote lets you control four devices with one easy-to-use, compact unit. After installing batteries, you can program the remote to control your Universal TV, VCR or DVD, Cable or Satellite Receivers, Amplifier or Tuner, and Auxiliary devices. To do so, follow the instructions in "Programming a Device". For best results, please read and follow all the remaining instructions. Keep this guide for future reference.
A Quick Look at Programming a Device	To control VCR or DVD, Cable or Satellite Receivers, Amplifier or Tuner, and Auxiliary devices, follow these steps. Before proceeding, find the codes for the devices you want to program in [Manufacturer's Codes] and write them down or highlight them.
	▲ To program a DVD Player, TV/DVD Combo, TV/VCR/DVD Combo, portable DVD player, or mobile DVD player, use the <b>DVD</b> key.
	<ol> <li>Turn on the device (for example, DVD player) and, if needed, load media (for example, a DVD).</li> <li>Prese a divise (VCP/DVD_CPL/SAT_ar AUX)</li> </ol>
	<ol> <li>Press a device key (VCR/DVD, CBL/SAT, or AUX).</li> <li>Press and hold SET until the red LED blinks twice; then release.</li> </ol>
	<ol> <li>Press and hold SET until the red LED blinks twice, then release.</li> <li>Enter the first five-digit code for your device. The LED blinks once as each digit is entered. If the code is correct, the LED blinks twice.</li> </ol>
	(If the LED does not blink twice, repeat steps 2 to 4 and try entering the code again.
	5. Aim the remote at the device and press Power. The device should turn off. If it
	does not, repeat steps 3 to 5, trying each code for your brand until you find one
	that works. If you cannot find a code that works, see "Searching for Your Code".
	6. Repeat steps 1 to 5 for the other devices you want to control. For future reference, write down each working device code below:
	AUX Code:
	CBL Code:
	<b>CD</b> Code:
	DVD Code:
	SAT Code:
	VCR Code:
	7. Press <b>SET</b> to save and exit
Searching for your Code	If your device does not respond to the remote after trying all codes listed for your brand, or if your brand is not listed, try searching for your code:
	<ol> <li>Press a device key once.</li> <li>Press and hold SET until the red LED blinks twice; then release.</li> <li>Enter 9-9-1, then the device group number (0= Cable, 1= TV, 2= VCR, 3= Audio). The LED blinks twice;</li> </ol>
	<ul> <li>Audio). The LED blinks twice.</li> <li>Aim the remote at the device and press <b>Power</b>. The remote sends IR codes from its library to the selected device, starting with the most popular code first.</li> </ul>
	<ul> <li>If the device responds, go to step 7.</li> <li>5. If the device does not respond, press CH+. The remote will try the next code. Continue until the device responds.</li> </ul>
	Press <b>CH-</b> to try the previous code.
	6. To search for other device codes, repeat steps <b>1</b> to <b>5</b> .
	7. Press <b>SET</b> to save and exit.
Checking the Codes	If you have set up the remote using the procedure in "Searching for Your Code", you may need to find out which four-digit code is operating your equipment. For example, to find out which code is assigned to your TV: 1. Press <b>TV</b> once.
	<ol> <li>Press and hold SET until the red LED blinks twice; then release.</li> </ol>
	3. Enter 9-9-0. The LED blinks twice.
	<ol> <li>To view the code for the first digit, press 1. Count the LED blinks (for example, three blinks = 3), and write down the number in the appropriate</li> </ol>
	code listing in step 8 under "Programming a Device".
	If a code digit is <b>0</b> , the LED does not blink.
	5. Repeat step 4 for the four remaining digits, using 2 for the second digit, 3 for the third digit 4 for the fourth digit and 5 for the fifth digit
	<ul> <li>the third digit, 4 for the fourth digit, and 5 for the fifth digit.</li> <li>To check for other device codes, repeat steps 1 to 5, substituting the device</li> </ul>
	key for <b>TV</b> .

Changing Volume Lock	device (Global Volume Unlock). H to Global Volume Lock so that or modes. After that, you can perform	ow independent volume control of each selected lowever, you may change the Volume Lock setting ne device's volume will control volume in all othe n Individual Volume Unlock on a selected device to dent operation or Global Volume Unlock to remove
	Locking Volume Control to O	ne Mode (Global Volume Lock)
	(for example, <b>TV</b> ). The LED b	d LED blinks twice; then release. mode key for the device you want to control volume links twice. Now when you press <b>VOL+</b> , <b>VOL-</b> , o example, <b>TV</b> ) will control the volume regardless o
	Unlocking All Volume Control (	Restoring Global Unlock)
	2. Enter 9-9-3 and then press VC	ed LED blinks twice; then release. DL+. The LED blinks four times. controlled for all programmed devices.
	Unlocking a Single Device's V	/olume Control
	<ol> <li>Press a device key (TV, VCR/</li> <li>Press and hold SET until the r</li> <li>Enter 9-9-3 and then press VC</li> </ol>	<b>/DVD, CBL/ SAT,</b> or <b>AUX</b> ). red LED blinks twice; then release.
Troubleshooting	<ol> <li>Press a device key (TV, VCR/</li> <li>Press and hold SET until the r</li> <li>Enter 9-9-3 and then press VC</li> </ol>	<b>/DVD, CBL/ SAT,</b> or <b>AUX</b> ). red LED blinks twice; then release. <b>DL-</b> . The LED blinks four times.
Troubleshooting	<ol> <li>Press a device key (TV, VCR/</li> <li>Press and hold SET until the r</li> <li>Enter 9-9-3 and then press VC Volume is now independently</li> </ol>	<b>/DVD, CBL/ SAT,</b> or <b>AUX</b> ). red LED blinks twice; then release. <b>DL-</b> . The LED blinks four times. controlled for the selected devices. <b>Solution</b>
Troubleshooting	<ol> <li>Press a device key (TV, VCR/ 2. Press and hold SET until the r 3. Enter 9-9-3 and then press VC Volume is now independently</li> <li>Problem</li> <li>LED does not blink when you press a key.</li> <li>LED blinks when you press a key, but device does not</li> </ol>	<ul> <li><b>/DVD, CBL/ SAT,</b> or <b>AUX</b>).</li> <li>red LED blinks twice; then release.</li> <li><b>DL</b> The LED blinks four times.</li> <li>controlled for the selected devices.</li> </ul> <b>Solution</b> Replace new batteries. Make sure the remote is aimed at your device and is
Troubleshooting	<ol> <li>Press a device key (TV, VCR/ 2. Press and hold SET until the r 3. Enter 9-9-3 and then press VC Volume is now independently</li> <li><i>Problem</i></li> <li>LED does not blink when you press a key.</li> <li>LED blinks when you press a</li> </ol>	<ul> <li><b>/DVD, CBL/ SAT,</b> or <b>AUX</b>).</li> <li>red LED blinks twice; then release.</li> <li><b>DL-</b>. The LED blinks four times.</li> <li>controlled for the selected devices.</li> </ul> <b>Solution</b> Replace new batteries. Make sure the remote is aimed at your device and is not more than 15 feet away.
Troubleshooting	<ol> <li>Press a device key (TV, VCR/ 2. Press and hold SET until the r 3. Enter 9-9-3 and then press VC Volume is now independently</li> <li>Problem</li> <li>LED does not blink when you press a key.</li> <li>LED blinks when you press a key, but device does not respond.</li> </ol>	<ul> <li><b>/DVD, CBL/ SAT,</b> or <b>AUX</b>).</li> <li>red LED blinks twice; then release.</li> <li><b>DL</b> The LED blinks four times.</li> <li>controlled for the selected devices.</li> <li><b>Solution</b></li> <li>Replace new batteries.</li> <li>Make sure the remote is aimed at your device and is not more than 15 feet away.</li> <li>An entry error has occurred (for example, wrong key)</li> </ul>
Troubleshooting	<ol> <li>Press a device key (TV, VCR/ 2. Press and hold SET until the r 3. Enter 9-9-3 and then press VC Volume is now independently</li> <li>Problem</li> <li>LED does not blink when you press a key.</li> <li>LED blinks when you press a key, but device does not respond.</li> <li>Remote does not control devices or commands are not working properly.</li> </ol>	<ul> <li><b>/DVD, CBL/ SAT,</b> or <b>AUX</b>).</li> <li>red LED blinks twice; then release.</li> <li><b>DL</b> The LED blinks four times.</li> <li>controlled for the selected devices.</li> </ul> <b>Solution</b> Replace new batteries. Make sure the remote is aimed at your device and is not more than 15 feet away. An entry error has occurred (for example, wrong key) Try entry sequence again. Try all listed codes for the device. Make sure the

CARE

- Use and store the unit only in normal temperature environments.
  Handle the remote gently and carefully. Don't drop it.

  - Wipe the remote with a damp cloth to keep it looking like new.

Audio Amplificas	Manufacturer	Codes
Audio Amplifiers	Bose	30674
	GE	30078
	JVC	30331
	Marantz	30321
	Nakamichi	30321
	NEC	30264
	Optimus	30395
	Realistic	30395
	Sansui	30321
	Shure	30264
	Sony	30689
	Soundesign	30078
	Victor	30331
	Wards	30078
	Yamaha	30354, 30133

Audia Amp/Tunara	Manufacturer	Codes
Audio Amp/Tuners	ADC	30531
	Aiwa	31405, 31243, 30121
	Anam	31609, 31074
	Audiotronic	31189
	Bose	31229
	Capetronic	30531
	Carver	31189
	Coby	31263
	Denon	31360, 31142, 30904
	Fonmix	31360
	Glory Horse	31263
	Harman/Kardon	30110
	Hitachi	31273
	Inkel	30027
	Integra	30135
	JBL	30110
	JVC	30074, 31263
	Kenwood	31313, 31570, 30027
	KLH	31428
	Magnavox	31189, 31269, 30531
	Marantz	31189, 31269, 30039
	MCS	30039
	Onkyo	30842, 30135
	Optimus	31023, 30670, 30531, 31074

31518, 30039

Panasonic

Audio Amp/Tunara	Manufacturer	Codes
Audio Amp/Tuners	Philips	31189, 31269
	Pioneer	31023, 30150, 30014, 30630, 30531
	Proscan	31254
	Qisheng	31609
	Quasar	30039
	RadioShack	31263
	RCA	31023, 31609, 31254, 30531, 31074
	Sharper Image	31263
	Silsonic	30176
	Sony	31258, 31759
	Soundesign	30670
	Stereophonics	31023
	Sunfire	31313
	Teac	31074, 31267
	Technics	31308, 31518, 30039
	Thorens	31189
	Victor	30074
	Wards	30014
	Yamaha	30176, 31276, 31176
Cable Converter Box	Manufacturer	Codes
Capie Converter Dox	ABC	00003, 00008, 00014
	Americast	00899
	Bell & Howell	00014
	Bell South	00899
	Clearmaster	00883
	ClearMax	00883
	Coolmax	00883
	Daeryung	00883 01877, 00877, 00477, 00008
	Daeryung	01877, 00877, 00477, 00008
	Daeryung Digi	01877, 00877, 00477, 00008 00637
	Daeryung Digi Director	01877, 00877, 00477, 00008 00637 00476
	Daeryung Digi Director Dumont	01877, 00877, 00477, 00008 00637 00476 00637
	Daeryung Digi Director Dumont Gehua	01877, 00877, 00477, 00008 00637 00476 00637 00476
	Daeryung Digi Director Dumont Gehua General Instrument	01877, 00877, 00477, 00008 00637 00476 00637 00476 00476 00476, 00810, 00276, 00003, 00014
	Daeryung Digi Director Dumont Gehua General Instrument GoldStar	01877, 00877, 00477, 00008 00637 00476 00637 00476 00476 00476, 00810, 00276, 00003, 00014 00144
	Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin	01877, 00877, 00477, 00008 00637 00476 00637 00476 00476 00476, 00810, 00276, 00003, 00014 00144 00009, 00273
	Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi	01877, 00877, 00477, 00008 00637 00476 00637 00476 00476 00476, 00810, 00276, 00003, 00014 00144 00009, 00273 00014
	Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold	01877, 00877, 00477, 00008 00637 00476 00637 00476 00476 00476, 00810, 00276, 00003, 00014 00144 00009, 00273 00014 00476, 00810, 00276, 00003, 00012, 00014
	Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold KNC	01877, 00877, 00477, 00008 00637 00476 00637 00476 00476, 00810, 00276, 00003, 00014 00144 00009, 00273 00014 00476, 00810, 00276, 00003, 00012, 00014 00008
	Daeryung Digi Director Dumont Gehua General Instrument GoldStar Hamlin Hitachi Jerrold KNC LG	01877, 00877, 00477, 00008 00637 00476 00637 00476 00476, 00810, 00276, 00003, 00014 00144 00009, 00273 00014 00476, 00810, 00276, 00003, 00012, 00014 00008 00144

Cable Converter Box	es Manufacturer	Codes
	Pace	01877, 00237
	Panasonic	00000, 00008, 00107
	Panther	00637
	Paragon	00000
	Philips	00317, 01305
	Pioneer	01877, 00877, 00144, 00533
	Pulsar	00000
	Quasar	00000
	RadioShack	00883
	Regal	00279, 00273
	Runco	00000
	Samsung	00000, 00144
	Scientific Atlanta	01877, 00877, 00477, 00008
	Sony	01006
	Starcom	00003, 00014
	Supercable	00276
	Supermax	00883
	Tocom	00012
	Torx	00003
	Toshiba	00000
	Trans PX	00276
	Tristar	00883
	TS	00003
	V2	00883
	Viewmaster	00883
	Vision	00883
	Vortex View	00883
	Zenith	00000, 00525, 00899

CD Players

Manufacturer	Codes
Aiwa	30157
Burmester	30420
California Audio Labs	30029
Carver	30157, 30179
Denon	30873
DKK	30000
DMX Electronics	30157
Dynamic Bass	30179
Fisher	30179
Garrard	30420
Genexxa	30032

CD Players	Manufacturer	Codes
<i>c_</i> i iayoio	Harman/Kardon	30157, 30173
	Hitachi	30032
	Integra	30101
	JVC	30072
	Kenwood	30826, 30626, 30028, 30037, 30036, 30190
	Krell	30157
	Linn	30157
	Magnavox	30157
	Marantz	30626, 30029, 30157
	MCS	30029
	Miro	30000
	Mission	30157
	MTC	30420
	NSM	30157
	Onkyo	30868, 30101
	Optimus	31063, 30000, 30032, 30037, 30420, 30179, 31075, 30145
	Panasonic	30029
	Parasound	30420
	Philips	30626, 30157
	Pioneer	31063, 31062, 30032
	Polk Audio	30157
	Proton	30157
	QED	30157
	Quad	30157
	Quasar	30029
	RadioShack	31075
	RCA	31062, 30032, 30420, 30179, 30053
	Realistic	30420, 30179
	Rotel	30157, 30420
	SAE	30157
	Sansui	30157
	Sanyo	30179
	SAST	30157
	Sharp	30861, 30037
	Silsonic	30888, 30036
	Sonic Frontiers	30157
	Sony	30490, 30000, 30100
	Soundesign	30145
	TAG McLaren	30157
	Tascam	30420
	Teac	30420
	Technics	30029

Victor         30072           Wards         30157, 30053           Yamaha         30888, 30036           Zonda         30157           DVD Players         Manufacturer         Codes           Aiwa         20641, 21912           Akai         20770           Allegro         20869           Apex Digital         20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915           Blaupunkt         20717           Blue Parade         20571           Broksonic         20695           Changhong         20627, 21061           CineVision         20869           Coby         21086           Curtis Mathes         21087           CyberHome         21023, 21129, 20816, 21117           Daewoo         20833, 21172, 20869           Denon         20490           DVD2000         20521           Emerson         20591           Enterprise         20591           Fisher         21919           Funai         20675	CD Players	Manufacturer	Codes
Yamaha         30888, 30036           Zonda         30157           DVD Players         Manufacturer         Codes           Aiwa         20641, 21912           Akai         20770           Allegro         20869           Apex Digital         20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915           Blaupunkt         20717           Blue Parade         20671           Broksonic         20695           Changhong         20627, 21061           CineVision         20869           Coby         21086           Curtis Mathes         21087           CyberHome         21024, 21023, 21129, 20816, 21117           Daewoo         20833, 21172, 20869           Denon         20490           DVD2000         20521           Emerson         20591, 20675           Enterprise         20591           Fisher         21919	OD T hay of o	Victor	30072
Zonda         30157           DVD Players         Manufacturer         Codes           Aiwa         20641, 21912         Akai         20770           Allegro         20869         Apex Digital         20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915           Blaupunkt         20717         Blaupunkt         20717           Blue Parade         20571         Blaupunkt         20695           Changhong         20627, 21061         CineVision         20869           Coby         21086         Curtis Mathes         21087           CyberHome         21024, 21023, 21129, 20816, 21117         Daewoo         20833, 21172, 20869           Denon         20490         DVD2000         20521         Emerson         20591, 20675           Enterprise         20591         Fisher         21919         21919         21919		Wards	30157, 30053
DVD Players         Manufacturer         Codes           Aiwa         20641, 21912           Akai         20770           Allegro         20869           Apex Digital         20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915           Blaupunkt         20717           Blue Parade         20571           Broksonic         20695           Changhong         20627, 21061           CineVision         20869           Coby         21086           Curtis Mathes         21087           CyberHome         21024, 21023, 21129, 20816, 21117           Daewoo         20833, 21172, 20869           Denon         20490           DVD2000         20521           Emerson         20591           Fisher         21919		Yamaha	30888, 30036
Aiwa         20641, 21912           Akai         20770           Allegro         20869           Apex Digital         20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915           Blaupunkt         20717           Blue Parade         20571           Broksonic         20695           Changhong         20627, 21061           CineVision         20869           Coby         21086           Curtis Mathes         21087           CyberHome         21024, 21023, 21129, 20816, 21117           Daewoo         20833, 21172, 20869           Denon         20490           DVD2000         20521           Emerson         20591, 20675           Enterprise         20591           Fisher         21919		Zonda	30157
Aiwa         20641, 21912           Akai         20770           Allegro         20869           Apex Digital         20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915           Blaupunkt         20717           Blue Parade         20571           Broksonic         20695           Changhong         20627, 21061           CineVision         20869           Coby         21086           Curtis Mathes         21087           CyberHome         21024, 21023, 21129, 20816, 21117           Daewoo         20833, 21172, 20869           Denon         20490           DVD2000         20521           Emerson         20591, 20675           Enterprise         20591           Fisher         21919			
Aiwa         20641, 21912           Akai         20770           Allegro         20869           Apex Digital         20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915           Blaupunkt         20717           Blue Parade         20571           Broksonic         20695           Changhong         20627, 21061           CineVision         20869           Coby         21086           Curtis Mathes         21087           CyberHome         21024, 21023, 21129, 20816, 21117           Daewoo         20833, 21172, 20869           Denon         20490           DVD2000         20521           Emerson         20591, 20675           Enterprise         20591           Fisher         21919		Manufacturer	Codes
Allegro20869Apex Digital20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915Blaupunkt20717Blue Parade20571Broksonic20695Changhong20627, 21061CineVision20869Coby21086Curtis Mathes21087CyberHome21024, 21023, 21129, 20816, 21117Daewoo20833, 21172, 20869Denon20490DVD200020521Emerson20591, 20675Enterprise20591Fisher21919	DVD Players		
Apex Digital20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915Blaupunkt20717Blue Parade20571Broksonic20695Changhong20627, 21061CineVision20869Coby21086Curtis Mathes21087CyberHome21024, 21023, 21129, 20816, 21117Daewoo20833, 21172, 20869Denon20490DVD200020521Emerson20591, 20675Enterprise20591Fisher21919		Akai	20770
20794, 21020, 21915         Blaupunkt       20717         Blue Parade       20571         Broksonic       20695         Changhong       20627, 21061         CineVision       20869         Coby       21086         Curtis Mathes       21087         CyberHome       21024, 21023, 21129, 20816, 21117         Daewoo       20833, 21172, 20869         Denon       20490         DVD2000       20521         Emerson       20591, 20675         Enterprise       20591         Fisher       21919		Allegro	20869
Blue Parade       20571         Broksonic       20695         Changhong       20627, 21061         CineVision       20869         Coby       21086         Curtis Mathes       21087         CyberHome       21024, 21023, 21129, 20816, 21117         Daewoo       20833, 21172, 20869         Denon       20490         DVD2000       20521         Emerson       20591, 20675         Enterprise       20591         Fisher       21919		Apex Digital	
Broksonic       20695         Changhong       20627, 21061         CineVision       20869         Coby       21086         Curtis Mathes       21087         CyberHome       21024, 21023, 21129, 20816, 21117         Daewoo       20833, 21172, 20869         Denon       20490         DVD2000       20521         Emerson       20591, 20675         Enterprise       20591         Fisher       21919		Blaupunkt	20717
Changhong20627, 21061CineVision20869Coby21086Curtis Mathes21087CyberHome21024, 21023, 21129, 20816, 21117Daewoo20833, 21172, 20869Denon20490DVD200020521Emerson20591, 20675Enterprise20591Fisher21919		Blue Parade	20571
CineVision20869Coby21086Curtis Mathes21087CyberHome21024, 21023, 21129, 20816, 21117Daewoo20833, 21172, 20869Denon20490DVD200020521Emerson20591, 20675Enterprise20591Fisher21919		Broksonic	20695
Coby21086Curtis Mathes21087CyberHome21024, 21023, 21129, 20816, 21117Daewoo20833, 21172, 20869Denon20490DVD200020521Emerson20591, 20675Enterprise20591Fisher21919		Changhong	20627, 21061
Curtis Mathes21087CyberHome21024, 21023, 21129, 20816, 21117Daewoo20833, 21172, 20869Denon20490DVD200020521Emerson20591, 20675Enterprise20591Fisher21919		CineVision	20869
CyberHome21024, 21023, 21129, 20816, 21117Daewoo20833, 21172, 20869Denon20490DVD200020521Emerson20591, 20675Enterprise20591Fisher21919		Coby	21086
Daewoo20833, 21172, 20869Denon20490DVD200020521Emerson20591, 20675Enterprise20591Fisher21919		Curtis Mathes	21087
Denon         20490           DVD2000         20521           Emerson         20591, 20675           Enterprise         20591           Fisher         21919		CyberHome	21024, 21023, 21129, 20816, 21117
DVD2000       20521         Emerson       20591, 20675         Enterprise       20591         Fisher       21919		Daewoo	20833, 21172, 20869
Emerson         20591, 20675           Enterprise         20591           Fisher         21919		Denon	20490
Enterprise20591Fisher21919		DVD2000	20521
Fisher 21919		Emerson	20591, 20675
		Enterprise	20591
Funai 20675		Fisher	21919
		Funai	20675
Gateway 21158, 21073		Gateway	21158, 21073
GE 20522, 20717		GE	20522, 20717
Go Video 20744, 20833, 21099, 20783, 21075, 20869, 21730		Go Video	20744, 20833, 21099, 20783, 21075, 20869, 21730
Greenhill 20717		Greenhill	20717
Harman/Kardon 20582, 20702		Harman/Kardon	20582, 20702
Hitachi 20573, 20664, 21919		Hitachi	20573, 20664, 21919
Hiteker 20672		Hiteker	20672
Initial 20717		Initial	20717
Integra 20627, 21924		Integra	20627, 21924
JBL 20702		JBL	20702
JVC 20558, 20623, 20867		JVC	20558, 20623, 20867
Kenwood 20490, 20534		Kenwood	20490, 20534
KLH 20717, 21020, 21149		KLH	20717, 21020, 21149
Koss 20651, 21980		Koss	20651, 21980

DVD Players	Manufacturer	Codes
DVDT layers	Lasonic	20798
	LG	20591, 20869, 20801
	Liquid Video	21980
	Lite-On	21158, 21058
	Loewe	20511
	Magnavox	20503, 20539, 21976, 21914, 20675
	Marantz	20539
	Memorex	20695
	Microsoft	20522
	Mintek	20717
	Mitsubishi	21521, 20521
	Nesa	20717
	Norcent	21003
	Onkyo	20503, 20627, 21924, 20792
	Oritron	20651, 21980
	Panasonic	20490, 21762, 21990
	Philips	20503, 20539, 20646, 21914
	Pioneer	20525, 20571
	Polaroid	21086, 21061
	Polk Audio	20539
	Portland	20770
	Proscan	20522
	Qwestar	20651
	RCA	20522, 20571, 20717, 20822
	Rio	20869
	Rotel	20623
	Sampo	20752, 20698
	Samsung	20490, 20573, 21932, 21075, 20820
	Sansui	20695
	Sanyo	20695
	Sharp	20630, 20752
	Sharper Image	21117
	Sherwood	20770
	Shinco	20717
	Shinsonic	20533
	Sonic Blue	20869, 21099
	Sony	20533, 20864, 21033, 21904, 21903
	SVA	20717
	Sylvania	20675
	Symphonic	20675

DVD Players	Manufacturer	Codes
	Теас	20717, 21984, 20809
	Technics	20490
	Theta Digital	20571
	Toshiba	20503, 20695
	Urban Concepts	20503
	Xbox	20522
	Yamaha	20490, 20539, 20545
	Zenith	20503, 20591, 20869
Satellite Receivers	Manufacturer	Codes
	AlphaStar	00772
	Chaparral	00216
	Crossdigital	01109
	DirecTV	00392, 00566, 00639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01109, 00099, 01392, 01640, 01442, 01414, 01108
	Dish Network System	01005, 00775, 01505
	Dishpro	01005, 00775, 01505
	Echostar	01005, 00775, 01505
	Expressvu	00775
	GE	00566
	General Instrument	00869
	GOI	00775
	Goodmans	01246
	Hisense	01535
	Hitachi	00819, 00222, 01250
	HTS	00775
	Hughes Network Systems	01142, 00749, 01749, 01442
	I-Lo	01535
	JVC	00775
	LG	01414, 01226
	Magnavox	00724, 00722
	Memorex	00724
	Mitsubishi	00749
	Motorola	00869
	NEC	01270
	Next Level	00869
	Panasonic	00247, 00701
	Paysat	00724
	Philips	01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442
	Proscan	00392, 00566

Satellite Receivers	Manufacturer	Codes
Salenne Receivers	RadioShack	00869
	RCA	00392, 00566, 00855, 00143, 01392
	Samsung	01276, 01109, 01108
	Sanyo	01219
	SKY	00856
	Sony	00639, 01640
	Star Choice	00869
	Tivo	01142, 01442
	Toshiba	00749, 01749, 00790, 01285
	UltimateTV	01640, 01392
	Uniden	00724, 00722
	US Digital	01535
	USDTV	01535
	Voom	00869
	Zenith	00856, 01856
Televisions	Manufacturer	Codes
1 616 11310113	Addison	10092
	Admiral	10093, 10463
	Advent	10761, 10842
	Aiko	10092
	Aiwa	11914
	Akai	10812, 10702, 10030, 10672, 11903
	Albatron	10700, 10843
	America Action	10180
	Anam	10250, 10180, 10700
	Anam National	10250, 10650
	Anhua	10051
	AOC	10451, 10093, 10180, 10060, 10030, 10178, 10092
	Apex Digital	10748, 10765, 10879, 10767, 11943
	Audiovox	10451, 10180, 10875, 10092, 10623
	Baile	10661
	Beijing	10812, 10661
	Bell & Howell	10154
	BenQ	11032
	Bradford	10180
	Broksonic	10236, 10463, 11911, 11938, 11905, 11935, 11929
	Cailing	10748
	Candle	10030
	Carnivale	10030
	Carver	10054
	Celebrity	10000
	Celera	10765

Televisions	Manufacturer	Codes
1 616 41310113	Changcheng	10051, 10661
	Changhong	10156, 10765, 11156, 10767
	Ching Tai	10092
	Chun Yun	10000, 10180, 10700, 10092, 10843
	Chung Hsin	10180, 10053
	Cinema	10672
	Citizen	10180
	<b>Commercial Solutions</b>	11447, 10047
	Conrowa	10156, 10145, 11156
	Contec	10180
	Craig	10180
	Crosley	10054
	Crown	10180
	Curtis Mathes	10047, 10054, 10154, 10451, 10093, 10060, 10702, 10030, 10145, 10166
	CXC	10180
	Daewoo	10154, 10451, 10180, 10030, 10178, 10672, 11928, 10092 10661, 11909, 10623, 10700
	Dayu	10661
	Dell	11080
	Denon	10145
	Dumont	10017
	Durabrand	10463, 10180, 10178, 10171, 11034
	Electroband	10000
	Emerson	10154, 10236, 10463, 10180, 10178, 10171, 11944, 11909 11929, 11905, 11928, 10623, 11911
	Envision	10030
	Ether	10030
	Firstar	10236
	Fisher	10154
	Fortress	10093
	Fujitsu	10809, 10853
	Funai	10180, 10171, 11904
	Furi	10145
	Futuretech	10180
	Gateway	11756, 11755
	GE	11447, 10047, 11454, 10051, 10451, 10180, 10030, 10178, 11917, 10092, 11907, 11922
	Gibralter	10017, 10030
	GoldStar	10154, 10030, 10178, 11926
	Grunpy	10180
	Haier	11034
	Hallmark	10178

Televisions	Manufacturer	Codes
	Hankook	10180, 10030, 10178
	Harley Davidson	11904
	Harman/Kardon	10054
	Harvard	10180
	Havermy	10093
	Helios	10865
	Hello Kitty	10451
	Hisense	10156, 10748, 10145, 11156
	Hitachi	10156, 10030, 10178, 11145, 10145, 10092, 11904, 11156
	Hongmei	10093
	Huafa	10145
	Huari	10145
	Huodateji	10051
	Imperial Crown	10661
	Infinity	10054
	Inteq	10017
	JBL	10054
	JCB	10000
	Jean	10156, 10051, 10236, 10092
	Jensen	10761
	Jiahua	10051
	Jinfeng	10051
	Jinxing	10054, 10156, 10145
	JVC	10053, 11923, 11253
	Kangli	10661
	KEC	10180
	Kenwood	10030
	KLH	10765, 10767
	Kolin	10180, 10150, 10053
	KTV	10180, 10030
	Kunlun	10051, 10661
	LG	10060, 10030, 10178, 10856, 10700, 10025
	Lloyd's	11904
	LXI	10047, 10054, 10154, 10156, 10178
	Magnasonic	11928, 11913
	Magnavox	11454, 10054, 10030, 10706, 11931, 11254, 11913, 11904, 11944
	Magnin	11907
	Marantz	10054, 10030, 10704
	Matsushita	10250, 10650
	Maxent	11755
	Megapower	10700

Televisions	Manufacturer	Codes
Televisions	Megatron	10178, 10145
	Memorex	10154, 10463, 10150, 10178, 11911, 11926, 11924, 11920, 11927
	MGA	10150, 10030, 10178, 11907
	Midland	10047, 10017, 10051
	Mitsubishi	10154, 10250, 10093, 10236, 10180, 11250, 10150, 10030, 10178, 11917, 10836
	Monivision	10843, 10700
	Motorola	10093
	MTC	10060, 10030
	Mudan	10051
	Multitech	10180
	NAD	10156, 10178, 10866
	National	10051
	NEC	10154, 10156, 10051, 10053, 10030, 10178, 11704
	Newave	10093, 10178, 10092
	Nikko	10030, 10178, 10092
	Norcent	10748, 10824
	NTC	10092
	Onwa	10180
	Optimus	10154, 10250, 10166, 10650, 11927, 11924, 11913
	Optonica	10093
	Orion	10236, 10463, 11929, 11911, 11905
	Panasonic	10054, 10250, 10051, 10650, 11941, 11927, 11924
	Panda	10051, 10706
	Penney	10047, 10156, 10051, 10060, 10030, 10178, 11926, 11907
	Philco	10054, 10180, 10030, 10178
	Philips	11454, 10054, 10000, 10051, 10030, 10178, 10092, 10690
	Pilot	10030
	Pioneer	10166, 10866, 10679
	Portland	10092
	Prima	10761
	Princeton	10700
	Prism	10051
	Proscan	11447, 10047, 11922
	Proton	10030, 10178
	Pulsar	10017
	Qingdao	10051
	Quasar	10250, 10051, 11924, 10650
	RadioShack	10047, 10154, 10180, 10030, 10178, 11920, 11904
	RCA	11447, 10047, 11454, 10000, 10030, 10178, 11547, 11922,11917, 10092, 11907, 11948, 10090, 10679

Televisions	Manufacturer	Codes
1 616 41310113	Realistic	10154, 10180, 10030, 10178
	Rowa	10748
	Runco	10017, 10030
	Sampo	10154, 10093, 10030, 10178, 10171, 10700, 10650, 11755, 10092
	Samsung	10154, 10156, 10060, 10812, 10702, 10030, 10178, 11060, 10814, 10092, 11903, 10090, 10766
	Sansui	10463, 11904, 11935, 11929, 11911
	Sanyo	10154, 10156, 10180, 10145, 11907
	Sanyuan	10093
	Scotch	10178
	Scott	10236, 10180, 10178
	Sears	10047, 10054, 10154, 10156, 10178, 10171, 11926, 11904
	Shaofeng	10145
	Sharp	10093, 10030, 10650, 11917
	Shen Ying	10092
	Shencai	10145
	Sheng Chia	10093, 10236
	Skygiant	10180
	Skyworth	10748
	Sony	11100, 10000, 10650, 11925, 11904
	Soundesign	10180, 10178
	Sowa	10156, 10051, 10060, 10178, 10092
	Squareview	10171
	SSS	10180
	Starlite	10180
	Studio Experience	10843
	Supreme	10000
	SVA	10748, 10865
	Sylvania	10054, 10030, 10171, 11944, 11931
	Symphonic	10180, 10171, 11913, 11904
	Synco	10000, 10451, 10093, 10060, 10178, 10092
	Tacico	10178, 10092
	Tandy	10093
	Tashiko	10092, 10650
	Tatung	10054, 10154, 10156, 10051, 10060, 11156, 11756, 11254
	Technics	10250, 10051
	Techwood	10051
	Тесо	10051, 10093, 10178, 10092
	Teknika	10054, 10180, 10150, 10060, 10092
	Telefunken	10702
	Tera	10030

Televisions	Manufacturer	Codes
	Thomas	11904
	Tiane	10093
	ТМК	10178
	TNCi	10017
	Tobo	10748
	Toshiba	10154, 10156, 10060, 10145, 11945, 11704, 11936, 11156, 11935, 10650, 11918
	Tuntex	10030, 10092
	TVS	10463
	V Inc.	11756, 10885, 10864
	Vector Research	10030
	Victor	10250, 10053, 10650
	Vidikron	10054
	Vidtech	10178
	Viewsonic	11755, 10885, 10864
	Wards	10054, 10030, 10178, 10866, 11156
	Warumaia	10661
	Waycon	10156
	White Westinghouse	10463, 11909, 10623
	Yamaha	10030
	Yapshe	10250
	Zenith	10017, 10463, 10178, 11904, 11929, 11911, 11909, 10092

VCRs

Manufacturer	Codes
ABS	21972
Admiral	20048, 20209
Aiko	20278
Aiwa	20037, 20479
Alienware	21972
America Action	20278
American High	20035
Amoisonic	20479
Anam	20162, 20037, 20240, 20278
Anam National	20162
Asha	20240
Audiovox	20037, 20278
Beaumark	20240
Bell & Howell	20104
Broksonic	20184, 20121, 20209, 20002, 20479
Calix	20037
Canon	20035
Carver	20081
CCE	20072, 20278

#### VCRs

Manufacturer	Codes
Changhong	20048, 20081
Citizen	20037, 20278
Colt	20072
Craig	20037, 20047, 20240, 20072
Curtis Mathes	20060, 20035, 20162
Cybernex	20240
CyberPower	21972
Daewoo	20045, 20104, 20278
Dell	21972
Denon	20042
DirecTV	20739
Durabrand	20039, 20038
Electrohome	20037
Electrophonic	20037
Emerex	20032
Emerson	20035, 20037, 20184, 20240, 20045, 20121, 20043, 20209, 20002, 20278, 20479
Fisher	20047, 20104
Fuji	20035, 20033
Fujitsu	20045
Gateway	21972
GE	20060, 20035, 20240
General	20045
Go Video	20432
GoldStar	20037, 20209, 20038, 20225
Haojie	20240
Harman/Kardon	20081, 20038
Harwood	20072
Hewlett Packard	21972
HI-Q	20047
Hitachi	20037, 20042, 20055
Howard Computers	21972
HP	21972
Hughes Network Systems	20042, 20739
iBUYPOWER	21972
JVC	20045, 20067
KEC	20037, 20278
Kenwood	20067, 20038
KLH	20072
Kodak	20035, 20037
Kolin	20043

VCRs	Manufacturer	Codes
VII.3	LG	20037, 20045, 20042, 20209, 20038
	Logik	20072
	LXI	20037
	Magnavox	20035, 20039, 20081
	Magnin	20240
	Marantz	20035, 20081
	Marta	20037
	Matsushita	20035, 20162
	Media Center PC	21972
	MEI	20035
	Memorex	20035, 20162, 20037, 20048, 20039, 20047, 20240, 20104, 20209, 20479
	MGA	20240, 20043
	MGN Technology	20240
	Microsoft	21972
	Mind	21972
	Minolta	20042
	Mitsubishi	20067, 20043
	Motorola	20035, 20048
	MTC	20240
	Multitech	20072
	NEC	20035, 20037, 20048, 20104, 20067, 20038
	Newave	20037
	Nikko	20037
	Noblex	20240
	Northgate	21972
	Olympus	20035
	Optimus	21062, 20162, 20037, 20048, 20104, 20432
	Orion	20184, 20209, 20002, 20479
	Panasonic	21062, 20035, 20162, 20616, 20225
	Penney	20035, 20037, 20240, 20042, 20038
	Pentax	20042
	Philco	20035, 20479
	Philips	20035, 20081, 20739, 20618
	Pilot	20037
	Pioneer	20042, 20067
	Polk Audio	20081
	Profitronic	20240
	Proscan	20060
	Protec	20072
	Pulsar	20039
	Qisheng	20060

#### VCRs

Manufacturer	Codes
Quasar	20035, 20162
Radix	20037
Randex	20037
RCA	20060, 20035, 20240, 20042, 20880
Realistic	20035, 20037, 20048, 20047, 20104
ReplayTV	20616
Runco	20039
Sampo	20037, 20048
Samsung	20240, 20045, 20432
Sanky	20048, 20039
Sansui	20067, 20209, 20479
Sanyo	20047, 20240, 20104
Scott	20184, 20045, 20121, 20043
Sears	20035, 20037, 20047, 20042, 20104
Sharp	20048, 20209
Shintom	20072
Shogun	20240
Singer	20072
Sonic Blue	20616
Sony	20035, 20032, 20033, 20636, 21972
STS	20042
Sylvania	20035, 20081, 20043
Systemax	21972
Tagar Systems	21972
Tashiko	20037
Tatung	20045, 20067
Technics	20035, 20162
Тесо	20035, 20037, 20048, 20038
Teknika	20035, 20037
Tivo	20636, 20618, 21503, 20739
ТМК	20240
Toshiba	20045, 20042, 20067, 20043, 21503, 21008, 21972
Totevision	20037, 20240
Touch	21972
Unitech	20240
Vector	20045
Vector Research	20038
Victor	20067
Video Concepts	20045
Videomagic	20037
Videosonic	20240
Viewsonic	21972

VCRs	Manufacturer	Codes
	Wards	20060, 20035, 20048, 20047, 20081, 20240, 20042, 20072
	White Westinghouse	20209, 20072
	XR-1000	20035, 20072
	Yamaha	20038
	Zenith	20039, 20033, 20209, 20479
	ZT Group	21972

#### SANYO COMFORT WARRANTY

#### WARRANTY APPLICATION

New, unused Sanyo Color Television products purchased in Canada through a Sanyo authorized dealer are warranted against manufacturing defects in materials and workmanship for ONE YEAR for parts and labor, from the date of purchase by the original retail purchaser for non-commercial use. This warranty only applies in favor of the original retail purchaser of the warranted product.

#### SANYO CANADA INC.'S RESPONSIBILITY

During the warranty period, SANYO Canada Inc. will repair, or at our option, replace a Color Television product which shows evidence of a manufacturing defect in materials or workmanship.

Replacement PARTS are warranted for the remaining portion of the warranty period.

#### WHAT IS NOT COVERED

- Color Television products purchased outside Canada. (a)
- Color Television products purchased in a used condition.
- Problems due to product set-up and installation.
- (b) (c) (d) (e) Adjustments that are outlined in the Operating Manual.
- Accessory items including antenna, batteries and connecting cables.
- (f) Damage in or due to transportation.
- (ģ) (h) Damage due to improper maintenance, accident, abuse, misuse or negligence.
- Damage caused by lightning and power surges.

#### ORIGINAL RETAIL PURCHASER'S RESPONSIBILITY

You, the original retail purchaser, must present your original, dated bill-of-sale together with this warranty to SANYO Canada Inc. or to an authorized Sanyo Service Depot\* when you make a claim under this warranty.

You, the original retail purchaser, are responsible for any costs of TRANSPORTING the product to and from SANYO Canada Inc. or an authorized Sanyo Service Depot. You also are responsible for the cost of any MAINTENANCE necessary in respect of the product.

\*In-home service is only available to the units whose screen size is 25 inches or over, and limited to the locations within a 30-km radius of any authorized Sanyo Service Depot, throughout Canada.

WARRANTY BECOMES VOID This warranty becomes void if the product's serial numbers are altered or removed or if any repair to the product is made other than by SANYO Canada Inc. or by an authorized Sanyo Service Depot.

#### LIMITATIONS

- (a) SANYO Canada Inc. reserves the right to change or improve the design of the model of the product warranted hereunder without incurring any obligation to make any modifications to or to install any
- improvement in or on the product. In no event shall SANYO Canada Inc. or any of its Authorized Dealers be liable for special or (b) consequential damage arising from the use of this product.

#### STATUTORY WARRANTIES

The above provisions do not preclude the operation of any applicable provincial statute which in certain circumstances may not allow some of the limitations and exclusions described in this Warranty. Where any terms of this Warranty are prohibited by such a statute, they shall be deemed null and void but the remainder of this warranty shall remain in effect.

#### HOW TO OBTAIN WARRANTY SERVICE

Please contact the Sanyo Authorized Dealer from whom the product was purchased or contact us directly at:

SANYO Canada Inc. 300 Applewood Cres Concord Ont. L4K 5C7 (905) 760-9944 1-800-263-2244